

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:
November
2011

Edmund G. Brown Jr.
Governor
State of California

John Laird
Secretary for Resources
The Resources Agency

Mark Cowin
Director
Department of Water Resources

This monthly report of operational data for the State Water Project has been published since January 1965. Monthly SWP Operations Data Reports from January 1990 have been made available on the Internet at <http://www.water.ca.gov/swp/operationscontrol/projectwide.cfm>. It provides the State Water Service Contractors, public agencies, consultants and others with the daily and monthly status of the Project's water and power operations.

Revisions to these data will appear in the Annual Report of Operations reflecting corrections made after the monthly summaries have been printed.

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The organization shown above represents staff and positions relevant to this report as of publication date on October 2013. It is the Department's policy to not show staff in "Acting" or "Temporary" positions.

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MONTHLY HIGHLIGHTS

The following activities highlight actions that affected State Water Project operations during November 2011:

Statewide precipitation was about 90 percent of average for the 2011 - 2012 water-year through November 30. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available on the internet at: "http://cdec.water.ca.gov/snow_rain.html".

Snowpack data is compiled four times annually, for the months of January, February, March, and April, by the California Department of Water Resources in Bulletin 120. The Bulletin also contains forecasts of seasonal runoff volume from the state's major watersheds, summaries of precipitation, and reservoir storages in various regions of the State.

November snowpack data is not available.

Cumulative unimpaired runoff for the Sacramento River Region for the 2011 - 2012 water-year was 1.1 maf, 77 percent of average. Statewide runoff for the 2011 - 2012 water-year was 75 percent of average.

Statewide reservoir storage was 125 percent of average to date. Total storage in major SWP reservoirs at the end of November was about 4.31 maf compared to 2.75 maf at this time in 2010. On November 30, end-of-month storage at Lake Oroville was about 2.81 maf, as compared to 1.64 maf at this time in 2010. The State share of San Luis Reservoir's end-of-month storage was about 915 taf, as compared with 528 taf at this time in 2010. The combined storage in SWP's southern reservoirs was about 589 taf, compared with about 581 taf at this time in 2010.

SWP water deliveries to date through November were about 4.56 maf. Water deliveries are a combination of project, transfer, and exchange classifications. Total deliveries through this same period in 2010 were 3.28 maf.

COA accounting remained suspended at zero in November. Conditions in the Delta remained in "Excess". Excess conditions exist when upstream reservoir releases plus unregulated natural flow exceed Sacramento Valley in-basin uses, plus exports.

There were three measurable earthquakes in November within the vicinity of the SWP; no facilities were found to meet inspection criteria. On November 6, Greenspot Units 1-5, were forced out of service due to lightning strikes in the area. On November 7, Banks Units 2 & 3 were forced out of service due to radial gate trip/close caused by Banks unit 1 trip. On November 22, Metropolitan Water District requested an increase in releases from Perris Lake to avoid high water levels due to due increased inflows.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

November 2011

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Oct 31	4998.62	19,541									
1	4998.58	19,507	-34	20	0	0	0	3	23	6	
2	4998.54	19,473	-34	20	0	0	0	3	23	6	
3	4998.52	19,455	-18	20	0	0	0	3	23	14	
4	4998.49	19,430	-25	20	0	0	0	3	23	10	
5	4998.47	19,413	-17	20	0	0	0	3	23	14	
6	4998.45	19,396	-17	20	0	0	0	3	23	14	
7	4998.42	19,370	-26	20	0	0	0	3	23	10	
8	4998.42	19,370	0	20	0	0	0	3	23	23	
9	4998.37	19,328	-42	20	0	0	0	3	23	2	
10	4998.35	19,310	-18	20	0	0	0	2	22	13	
11	4998.33	19,293	-17	20	0	0	0	2	22	13	
12	4998.31	19,276	-17	20	0	0	0	2	22	13	
13	4998.29	19,259	-17	20	0	0	0	2	22	13	
14	4998.27	19,242	-17	20	0	0	0	2	22	13	
15	4998.24	19,217	-25	20	0	0	0	2	22	9	
16	4998.22	19,200	-17	20	0	0	0	2	22	13	
17	4998.19	19,175	-25	20	0	0	0	2	22	9	
18	4998.20	19,183	8	20	0	0	0	2	22	26	
19	4998.20	19,183	0	20	0	0	0	2	22	22	
20	4998.19	19,175	-8	20	0	0	0	2	22	18	
21	4998.17	19,158	-17	20	0	0	0	2	22	13	
22	4998.15	19,141	-17	20	0	0	0	2	22	13	
23	4998.13	19,124	-17	20	0	0	0	2	22	13	
24	4998.11	19,107	-17	20	0	0	0	2	22	13	
25	4998.10	19,098	-9	20	0	0	0	2	22	17	
26	4998.08	19,082	-16	20	0	0	0	2	22	14	
27	4998.06	19,065	-17	20	0	0	0	2	22	13	
28	4998.04	19,048	-17	20	0	0	0	2	22	13	
29	4998.02	19,031	-17	20	0	0	0	2	22	13	
30	4997.99	19,006	-25	20	0	0	0	2	22	9	
Total cfs-days				---	600	0	0	69	669	399	
Total ac-ft				-535	1,190	0	0	136	1,326	791	

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

November 2011

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	1/ Water Supply Contract	Water Right					
Oct 31	5580.17	43,948									
1	5580.14	43,906	-42	2	0	0	0	4	6	-15	
2	5580.11	43,865	-41	2	0	0	0	4	6	-15	
3	5580.10	43,852	-13	2	0	0	0	4	6	-1	
4	5580.19	43,975	123	2	0	0	0	4	6	68	
5	5580.08	43,824	-151	2	0	0	0	4	6	-70	
6	5580.12	43,879	55	2	0	0	0	4	6	34	
7	5580.15	43,920	41	2	0	0	0	4	6	27	
8	5580.05	43,783	-137	2	0	0	0	4	6	-63	
9	5580.05	43,783	0	2	0	0	0	4	6	6	
10	5580.04	43,769	-14	2	0	0	0	4	6	-1	
11	5580.04	43,769	0	2	0	0	0	4	6	6	
12	5580.03	43,756	-13	2	0	0	0	4	6	-1	
13	5580.02	43,742	-14	2	0	0	0	4	6	-1	
14	5580.02	43,742	0	2	0	0	0	4	6	6	
15	5580.02	43,742	0	2	0	0	0	4	6	6	
16	5580.02	43,742	0	2	0	0	0	4	6	6	
17	5580.00	43,715	-27	2	0	0	0	4	6	-8	
18	5580.00	43,715	0	2	0	0	0	4	6	6	
19	5580.00	43,715	0	2	0	0	0	4	6	6	
20	5580.01	43,728	13	2	0	0	0	4	6	13	
21	5580.01	43,728	0	2	0	0	0	3	5	5	
22	5579.99	43,701	-27	2	0	0	0	3	5	-9	
23	5579.98	43,687	-14	2	0	0	0	3	5	-2	
24	5579.98	43,687	0	2	0	0	0	3	5	5	
25	5579.97	43,673	-14	2	0	0	0	3	5	-2	
26	5579.97	43,673	0	2	0	0	0	3	5	5	
27	5579.96	43,660	-13	2	0	0	0	3	5	-2	
28	5579.97	43,673	13	2	0	0	0	3	5	12	
29	5579.95	43,646	-27	2	0	0	0	3	5	-9	
30	5579.93	43,619	-27	2	0	0	0	3	5	-9	
Total cfs-days				---	60	0	0	110	170	5	
Total ac-ft				-329	119	0	0	219	338	9	

1/ Last Chance Creek Water District.

Table 3. Lake Davis

Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

November 2011

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Right 1/	Water Supply Contract 2/					
Oct 31	5769.73	64,578									
1	5769.70	64,474	-104	16	0.3	0	0	9	25	-27	
2	5769.69	64,439	-35	16	0.3	0	0	9	25	7	
3	5769.70	64,474	35	16	0.3	0	0	9	25	43	
4	5769.72	64,543	69	16	0.3	0	0	9	25	60	
5	5769.68	64,404	-139	16	0.3	0	0	9	25	-45	
6	5769.68	64,404	0	16	0.3	0	0	9	25	25	
7	5769.66	64,334	-70	16	0.3	0	0	9	25	-10	
8	5769.64	64,265	-69	16	0.3	0	0	9	25	-10	
9	5769.63	64,230	-35	16	0.3	0	0	9	25	7	
10	5769.63	64,230	0	16	0.3	0	0	9	25	25	
11	5769.62	64,195	-35	16	0.3	0	0	9	25	7	
12	5769.61	64,161	-34	16	0.3	0	0	9	25	8	
13	5769.60	64,126	-35	16	0.3	0	0	9	25	7	
14	5769.60	64,126	0	16	0.3	0	0	9	25	25	
15	5769.59	64,091	-35	16	0.3	0	0	9	25	7	
16	5769.58	64,056	-35	16	0.3	0	0	9	25	7	
17	5769.53	63,883	-173	16	0.3	0	0	9	25	-62	
18	5769.58	64,056	173	16	0.3	0	0	9	25	112	
19	5769.57	64,022	-34	16	0.3	0	0	9	25	8	
20	5769.57	64,022	0	16	0.3	0	0	9	25	25	
21	5769.56	63,987	-35	16	0.3	0	0	9	25	7	
22	5769.52	63,848	-139	16	0.3	0	0	10	26	-44	
23	5769.50	63,779	-69	16	0.3	0	0	10	26	-9	
24	5769.50	63,779	0	16	0.3	0	0	10	26	26	
25	5769.49	63,744	-35	16	0.3	0	0	10	26	8	
26	5769.49	63,744	0	16	0.3	0	0	10	26	26	
27	5769.48	63,710	-34	16	0.3	0	0	10	26	9	
28	5769.48	63,710	0	16	0.3	0	0	10	26	26	
29	5769.47	63,675	-35	16	0.3	0	0	10	26	8	
30	5769.47	63,675	0	16	0.3	0	0	10	26	26	
Total cfs-days				---	471	9	0	0	279	759	
Total ac-ft				-903	934	17	0	0	554	1,506	
										603	

1/ Includes unclassified non-project diversions to local agencies (Valberti and Romelli).

Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537, 580 ac-ft

November 2011

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow							Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal 2/	Lime Saddle Marina	Butte County Del Oro	Evaporation 3/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 4/
Oct 31	856.45	2,895,802										
1	856.34	2,894,295	-1,507	6,759	6	0	0	137	0	6,902	0	5,395
2	856.12	2,891,282	-3,013	6,644	6	0	0	365	0	7,015	0	4,002
3	856.14	2,891,556	274	6,708	6	0	0	142	0	6,856	0	7,130
4	855.94	2,888,819	-2,737	6,580	6	0	0	30	0	6,616	0	3,879
5	855.89	2,888,134	-685	6,697	6	0	0	30	0	6,733	0	6,048
6	855.82	2,887,177	-957	6,713	6	0	0	20	0	6,739	0	5,782
7	855.67	2,885,126	-2,051	8,950	6	0	0	91	0	9,047	0	6,996
8	855.26	2,879,525	-5,601	9,649	6	0	0	81	0	9,736	0	4,135
9	855.08	2,877,069	-2,456	9,663	6	0	0	71	0	9,740	0	7,284
10	854.45	2,868,483	-8,586	10,298	6	0	0	40	0	10,344	0	1,758
11	854.05	2,863,041	-5,442	10,262	6	0	0	101	0	10,369	0	4,927
12	853.53	2,855,977	-7,064	10,330	6	0	0	50	0	10,386	0	3,322
13	853.00	2,848,790	-7,187	10,248	6	0	0	40	0	10,294	0	3,107
14	852.31	2,839,452	-9,338	10,427	6	0	0	60	0	10,493	0	1,155
15	852.03	2,835,669	-3,783	10,483	6	0	0	100	0	10,589	0	6,806
16	851.56	2,829,327	-6,342	10,363	6	0	0	60	0	10,429	0	4,087
17	851.31	2,825,957	-3,370	10,451	6	0	0	60	0	10,517	0	7,147
18	850.93	2,820,841	-5,116	10,457	5	0	0	70	0	10,532	0	5,416
19	850.90	2,820,438	-403	6,444	4	0	0	50	0	6,498	0	6,095
20	850.67	2,817,345	-3,093	6,563	4	0	0	40	0	6,607	0	3,514
21	850.67	2,817,345	0	8,039	4	0	0	0	0	8,043	0	8,043
22	850.52	2,815,329	-2,016	7,917	4	0	0	70	0	7,991	0	5,975
23	850.39	2,813,582	-1,747	7,971	4	0	0	60	0	8,035	0	6,288
24	850.43	2,814,119	537	6,017	4	0	0	20	0	6,041	0	6,578
25	850.47	2,814,657	538	5,985	4	0	0	20	0	6,009	0	6,547
26	850.45	2,814,388	-269	5,970	4	0	0	20	0	5,994	0	5,725
27	850.47	2,814,657	269	6,035	4	0	0	10	0	6,049	0	6,318
28	850.15	2,810,360	-4,297	8,517	4	0	0	10	0	8,531	0	4,234
29	850.03	2,808,750	-1,610	8,099	4	0	1	40	0	8,144	0	6,534
30	849.86	2,806,470	-2,280	8,105	4	0	1	30	0	8,140	0	5,860
Total		-89,332	247,344	155	0	2	1,918	0	249,419	0	160,087	

1/ Includes bypass flows

2/ South Feather Water and Power Agency

3/ Evaporation will be zero for days when there is precipitation or heavy overcast.

4/ Does not include pumpback.

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Daily Operation

(in acre-feet except as noted)

November 2011

Capacity: 25,120 ac-ft

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County Cal Water	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
Oct 31	23,925										
1	24,333	408	6,759	86	0	4,696	0	4	1,460	0	-277
2	24,102	-231	6,644	86	0	5,402	0	4	1,462	0	-93
3	24,192	90	6,708	162	0	5,244	0	4	1,466	0	-66
4	23,919	-273	6,580	106	0	5,453	0	4	1,462	0	-40
5	24,505	586	6,697	182	0	4,583	0	4	1,478	0	-228
6	24,130	-375	6,713	506	0	6,267	0	4	1,464	0	141
7	24,774	644	8,950	486	0	7,110	0	4	1,464	0	-214
8	23,577	-1,197	9,649	486	0	9,762	0	4	1,446	0	-120
9	24,271	694	9,663	486	0	8,019	0	3	1,456	0	23
10	24,439	168	10,298	486	0	9,324	0	3	1,464	0	175
11	24,262	-177	10,262	486	0	9,647	0	3	1,462	0	187
12	24,565	303	10,330	486	0	9,107	0	3	1,462	0	59
13	23,847	-718	10,248	486	0	10,191	0	3	1,462	0	204
14	23,947	100	10,427	486	0	9,389	0	3	1,444	0	23
15	24,591	644	10,483	486	0	8,906	0	3	1,456	0	40
16	24,562	-29	10,363	486	0	9,550	0	3	1,462	0	137
17	24,547	-15	10,451	487	0	9,527	0	3	1,462	0	39
18	24,481	-66	10,457	486	0	9,711	0	3	1,462	0	167
19	24,118	-363	6,444	403	0	5,817	0	3	1,454	0	64
20	24,094	-24	6,563	486	0	5,599	0	3	1,452	0	-19
21	24,119	25	8,039	486	0	6,920	0	3	1,460	0	-117
22	23,719	-400	7,917	443	0	7,366	0	3	1,440	0	49
23	23,773	54	7,971	486	0	7,102	0	3	1,436	0	138
24	23,941	168	6,017	486	0	4,943	0	3	1,442	0	53
25	23,988	47	5,985	485	0	5,051	0	3	1,440	0	71
26	24,038	50	5,970	486	0	5,018	0	3	1,446	0	61
27	23,873	-165	6,035	486	0	5,239	0	3	1,438	0	-6
28	24,081	208	8,517	446	0	7,330	0	3	1,442	0	20
29	24,093	12	8,099	433	0	7,068	0	3	1,446	0	-3
30	24,075	-18	8,105	325	0	6,951	0	3	1,438	0	-56
Total		150	247,344	12,412	0	216,292	0	98	43,628	0	412

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

3/ Includes Bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

November 2011

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback		
Oct 31	133.72	45,619										
1	133.40	44,375	-1,244	4,696	1,073	0	583	1,119	3,134	0	-31	4,594
2	133.18	43,529	-846	5,402	1,450	0	615	1,248	3,134	0	199	4,596
3	132.82	42,160	-1,369	5,244	1,646	0	589	1,379	3,134	0	135	4,600
4	132.37	40,479	-1,681	5,453	1,837	0	575	1,601	3,114	0	-7	4,576
5	131.73	38,142	-2,337	4,583	1,982	0	575	1,686	3,114	0	437	4,592
6	131.32	36,679	-1,463	6,267	2,023	0	575	1,686	3,134	0	-312	4,598
7	131.17	36,150	-529	7,110	2,202	0	575	1,690	3,114	0	-58	4,578
8	131.60	37,675	1,525	9,762	2,499	2	645	1,742	3,134	0	-215	4,580
9	131.41	36,998	-677	8,019	2,618	18	674	1,755	3,134	0	-497	4,590
10	131.66	37,890	892	9,324	2,618	26	674	1,718	3,134	0	-262	4,598
11	131.92	38,829	939	9,647	2,579	26	674	1,611	3,134	0	-684	4,596
12	132.13	39,595	766	9,107	2,579	26	674	1,519	3,134	0	-409	4,596
13	132.56	41,185	1,590	10,191	2,579	28	674	1,517	3,134	0	-669	4,596
14	132.84	42,236	1,051	9,389	2,499	26	674	1,521	3,134	0	-484	4,578
15	133.06	43,070	834	8,906	2,360	30	674	1,458	3,114	0	-436	4,570
16	133.40	44,375	1,305	9,550	2,300	34	674	1,388	3,134	0	-715	4,596
17	133.82	46,011	1,636	9,527	2,220	34	674	1,394	3,134	0	-435	4,596
18	134.22	47,592	1,581	9,711	2,180	34	676	1,323	3,134	0	-783	4,596
19	133.84	46,090	-1,502	5,817	2,162	32	674	1,260	3,134	0	-57	4,588
20	133.38	44,298	-1,792	5,599	2,162	30	674	1,260	3,134	0	-131	4,586
21	133.25	43,797	-501	6,920	2,103	26	664	1,236	3,134	0	-258	4,594
22	133.25	43,797	0	7,366	1,984	18	653	1,222	3,134	0	-355	4,574
23	133.25	43,797	0	7,102	1,904	20	653	1,055	3,114	0	-356	4,550
24	132.82	42,160	-1,637	4,943	1,900	22	653	883	3,134	0	12	4,576
25	132.36	40,442	-1,718	5,051	1,904	22	655	883	3,134	0	-171	4,574
26	131.91	38,792	-1,650	5,018	1,900	20	655	901	3,114	0	-78	4,560
27	131.47	37,211	-1,581	5,239	1,898	22	655	912	3,134	0	-199	4,572
28	131.54	37,460	249	7,330	1,902	22	655	912	3,134	0	-456	4,576
29	131.63	37,782	322	7,068	1,906	22	655	912	3,134	0	-117	4,580
30	131.62	37,747	-35	6,951	1,904	14	655	912	3,134	0	-367	4,572
Total		-7,872	216,292	62,873	554	19,375	39,703	93,900	0	-7,759	137,528	

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

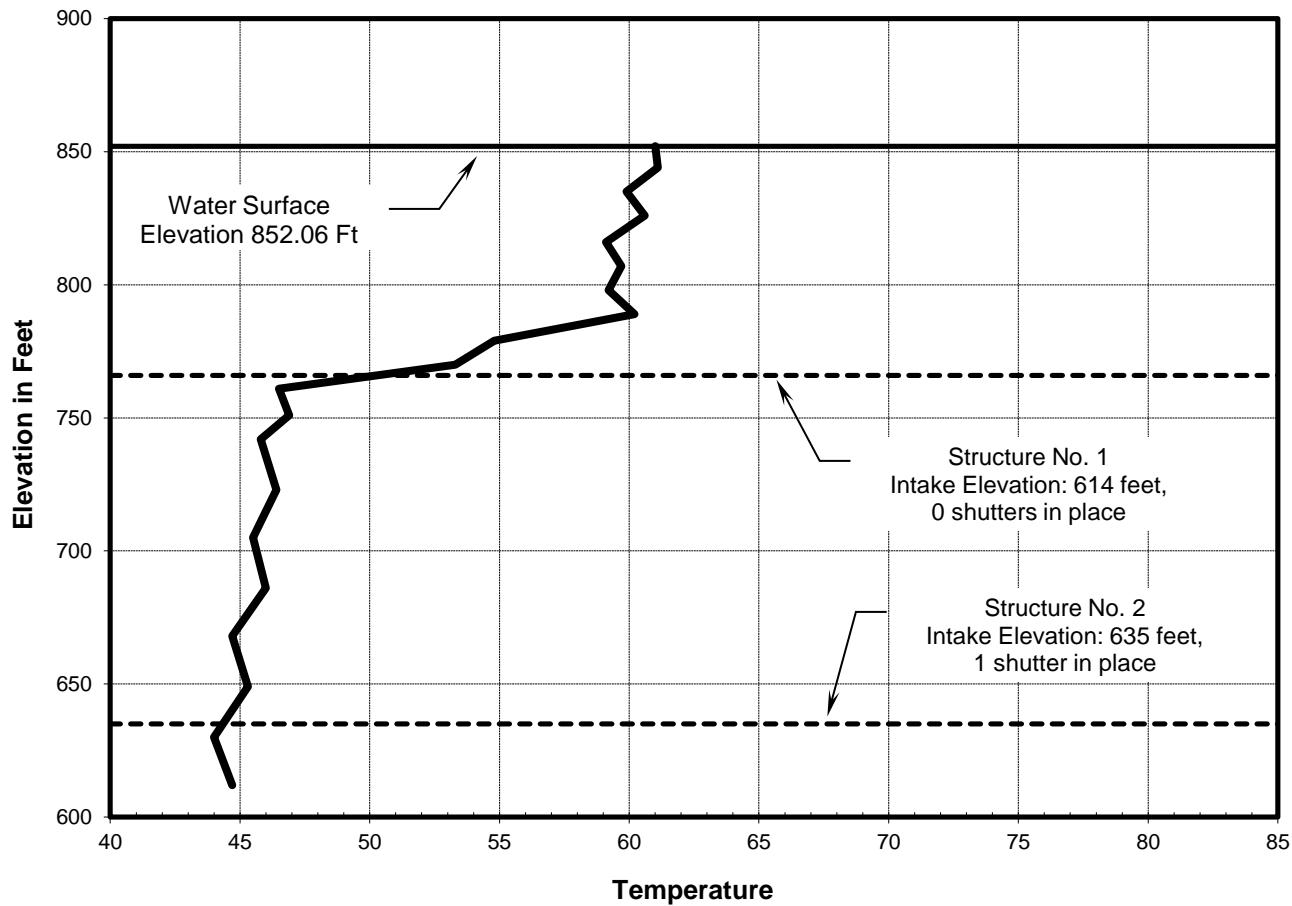
Table 7. Oroville-Thermalito Complex

Water Temperature Data

(in degrees Fahrenheit)

November 2011

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	56.6	52.7
2	54.1	52.9
3	53.6	52.4
4	52.9	51.6
5	52.1	50.9
6	51.2	50.7
7	50.8	50.8
8	50.6	51.7
9	50.5	52.2
10	50.4	52.5
11	50.1	52.6
12	50.7	52.9
13	51.2	52.8
14	51.8	52.9
15	52.3	52.7
16	52.3	52.7
17	52.6	52.7
18	52.5	52.4
19	51.3	50.9
20	51.2	51.5
21	51	52.1
22	51.1	52.6
23	50.9	52.2
24	50.7	52.2
25	50.8	52.3
26	50.5	52.1
27	50.6	52
28	50.7	51.9
29	50.3	51.5
30	50.2	51.4

**Lake Oroville Temperature Profile
on November 16, 2011**

Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

November 2011

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Structure			Table A	Permit	Settlement	Article 21	Other		
	No.	Structure										
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	4,315	34	100	67	100	100		
		Travis Surge Tank	8.78									
			8.80	Solano County Water Agency Travis AFB	134							
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	267		50	563	100	80		
				Solano County Water Agency Fairfield / Vacaville 42"	693							
	2		17.00	Solano County Water Agency Central Solano	Stub							
	3A	Cordelia Forebay	21.23									
		Cordelia Pumping Plant & Cordelia Spillway	21.30		3,078							
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	1,066	400	201	300	666	400		
				Solano County Water Agency Benicia	901							
3B	2	Cordelia Surge Tank	23.33									
		Creston Surge Tank Connection	25.65									
			26.95	Napa County Flood Control & WCD American Canyon 2	1	1	893	197				
			27.27	Napa County Flood Control & WCD American Canyon 3	0							
	3B	Napa Terminal Tank	27.58	City of Napa	893							
			27.60	Napa County Flood Control & WCD American Canyon 1	197							

Table 9. Delta Field Division Plant Data

(in acre-feet)

November 2011

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	194	114	13,337	13,337	440	0	0	0
2	206	132	13,327	13,327	233	0	0	0
3	207	132	13,318	13,318	358	0	0	0
4	192	126	10,337	10,337	272	0	0	0
5	180	129	10,333	10,333	248	0	0	0
6	183	124	9,992	9,992	286	0	0	0
7	179	116	9,592	9,592	247	0	0	0
8	166	100	7,807	7,807	227	0	0	0
9	149	96	9,369	9,369	232	0	0	0
10	173	113	7,392	7,392	277	22	0	0
11	123	75	7,934	7,934	247	0	0	12
12	150	87	7,408	7,408	166	0	0	63
13	153	103	8,851	8,851	136	0	0	127
14	150	96	8,105	8,105	7	0	0	211
15	161	104	8,821	8,821	0	0	0	236
16	160	101	2,356	2,356	0	0	0	227
17	154	99	5,562	5,562	0	0	0	0
18	139	87	3,182	3,182	0	0	0	249
19	161	106	4,424	4,424	0	0	0	234
20	125	103	4,424	4,424	0	0	0	231
21	110	105	4,433	4,433	0	0	0	219
22	102	93	3,605	3,605	0	0	0	201
23	95	82	2,705	2,705	0	0	0	207
24	85	78	2,984	2,984	0	0	0	224
25	92	86	2,983	2,983	0	0	0	0
26	108	103	2,983	2,983	0	0	0	0
27	107	104	2,984	2,984	0	0	0	225
28	104	94	5,514	5,514	0	0	0	212
29	103	97	6,701	6,701	0	0	0	211
30	104	93	5,912	5,912	0	0	0	196
Total	4,315	3,078	206,675	206,675	3,376	22	0	3,285

Table 10. Clifton Court Forebay

Daily Operation of Gates

November 2011

Date	Time										Amount of inflow in Acre-Feet
	Opened	Closed									
1		04:30	07:30	20:10							13,247
2	00:01	05:30									13,231
3	00:15	06:30	09:30	19:45							13,232
4	01:30	07:30	10:30	16:30							9,907
5	02:45	08:15	11:15	17:00							9,904
6	00:30	03:00	16:15	19:15							9,905
7	01:15	13:45	16:30	19:15							9,914
8	00:15	14:15	17:00	19:08							7,915
9	02:15	14:14	20:29	21:20							7,916
10	03:00	13:04	20:05	21:00							7,928
11	03:30	13:00	20:05	20:45							7,923
12	00:01	01:00	04:00	12:45							7,923
13	00:01	01:30	04:30	12:30							7,928
14	00:01	02:15	05:15	12:40							7,912
15	00:00	03:00	06:00	13:50							7,930
16	00:01	03:45	07:00	07:30	12:08	18:10					5,930
17	00:01	04:30	07:45	14:00							3,951
18	00:01	05:15	08:35	15:00							3,891
19	00:15	06:15	18:10	20:00							3,951
20	01:45	07:15	10:15	13:15	23:30						3,952
21		09:40									3,960
22	00:35	11:20									3,949
23	01:15	13:05									3,950
24	02:00	06:50									3,952
25	02:45	06:05									2,961
26	04:00	13:00									2,962
27	04:30	14:35									2,962
28	00:01	02:15	07:25	17:00							5,945
29	00:01	03:00	06:35	14:15							5,948
30	00:01	03:45	06:45	14:21	22:30						5,933
Total inflow for the month in AF:											206,912

Table 11. Governor Edmund G. Brown California Aqueduct
 Delta Field Division, Monthly Deliveries

(In acre-feet)

November 2011

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Mile			Table A	USBR	Local Other	Article 56C	Other		
	No.	Structure										
1A			1.83	Byron-Bethany I.D.	204			204				
1	1	Banks Pumping Plant	3.32		206,675							
		South Bay Pumping Plant	4.49	Bethany Reservoir (Into the South Bay Aquaduct)	3,376							
		Check No. 1	5.95									
			8.08	Alameda Co. Zone 7 WA Mountain House Golf Course	0							
	2	Check No. 2	12.01									
			12.47	Musco Olive	33							
		Check No. 3	18.29									
	3		22.16	Tracy Golf & Country Club	0							
		Check No. 4	23.99									
2A	4	Check No. 5	29.73									
	5	Check No. 6	34.24									
	6		35.22	Turlock Fruit Company Inflow	0							
		Check No. 7	39.91									
	7		42.46	Oak Flat Water District-A	15		15	49				
			42.9	Western Hills WD	49							
			43.81	Oak Flat Water District-B	0							
			44.64	Oak Flat Water District-C	0							
		Check No. 8	45.97		0							
2B	8		46.18	Oak Flat Water District-D	0		15	0	0	0		
				Oak Flat Totals:	15							
	9	Check No. 9	51.3									
		Check No. 10	56.86									
	10	Check No. 11	61.4									
	11		66.14	Veteran's Cemetery	7							
		Check No. 12	66.71		3,229							

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

November 2011

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending		Structure			Table A	Local	Article 56C	Other	Recreation			
	No.		Mile										
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	3,376	2	111						
			3.17	Granite - Vasco Rd. (Temp.)	0								
			3.18	Oakland Scavenger Zone 7	2								
		Check No. 1	3.91										
	2	Check No. 2	5.21										
	3		7.21	Zone 7 Water Agency Altamont	111								
		Check No. 3	9.49	Zone 7 Water Agency Patterson									
2	4			Storage Exchange Project Water	0	29	10	9	215	24			
		4	Check No. 4	10.68									
		5	Check No. 5	12.29									
				13.55	Zone 7 Water Agency Wente #1								
				14.16	Zone 7 Water Agency Wente #2								
	6			14.31	Zone 7 Water Agency Ising	9	215	9	24	187	172		
				14.65									
				14.78	Zone 7 Water Agency Arroyo Mocho Project Water								
	7			16.38									
				16.57	Zone 7 Water Agency Wente #3	9	24	9	26	1,863	11		
				16.63	Zone 7 Water Agency Wente #4								
	8			16.69	Zone 7 Water Agency Norman Nursery								
				16.70	Zone 7 Water Agency Concannon Project Water								
		Del Valle Branch Pipeline Section	18.63	Pumped into Lake Del Valle	22								
				Pumped into South Bay Aqueduct	0								
				Gravity into South Bay Aqueduct	3,285								
5	8	Deliveries through Del Valle Branch Pipeline		Zone 7 Water Agency Arroyo Valle #1 & #2		187	172	3	1,612	2,350			
				Project Water									
				Storage Exchange									
				Inflow Release									
				East Bay Regional Park Dist.									
6				Del Valle Recreation									
				Zone 7 Water Agency Wente #5									
7	22.50	La Costa Tunnel	19.20	Zone 7 Water Agency So. Livermore Project		1,612	1,612	0	2,350				
			19.21	Storage Exchange									
				Project Water									
8	25.97	Mission Tunnel	28.97	ACWD - Vallecitos Project Water		1,612	1,612	0	2,350				
				City of San Francisco San Antonio									
9	35.86	Santa Clara Pipeline		ACWD - Bayside 1 & 2 Project Water		1,612	1,612	0	2,350				
				Storage Exchange									
				S.C.V.W.D. Meter									

Table 13. Lake Del Valle

Daily Operation

Capacity: 77,106 ac-ft

November 2011

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct 2/	Recreation Deliveries 3/	Evaporation	Total Outflow	
Oct 31	700.85	38,412									
1	700.82	38,391	-21	-10	0	0	0	1	10	11	0.00
2	700.80	38,377	-14	1	0	0	0	1	14	15	0.00
3	700.75	38,343	-35	-25	0	0	0	1	9	10	0.00
4	700.75	38,343	0	5	0	0	0	0	5	5	0.11
5	700.71	38,315	-28	-24	0	0	0	0	4	4	0.00
6	700.70	38,308	-7	-5	0	0	0	0	2	2	0.33
7	700.69	38,301	-7	-6	0	0	0	0	1	1	0.00
8	700.66	38,280	-21	-15	0	0	0	0	6	6	0.00
9	700.63	38,260	-21	-18	0	0	0	0	3	3	0.00
10	700.65	38,274	14	-4	22	0	0	0	4	4	0.00
11	700.61	38,246	-28	-11	0	0	12	0	5	17	0.00
12	700.52	38,184	-62	4	0	0	63	0	3	66	0.00
13	700.37	38,081	-103	29	0	0	127	0	5	132	0.00
14	700.11	37,903	-178	36	0	0	211	0	3	214	0.00
15	699.83	37,711	-192	48	0	0	236	0	4	240	0.00
16	699.55	37,520	-191	40	0	0	227	0	4	231	0.00
17	699.25	37,316	-204	-198	0	0	0	0	6	6	0.00
18	698.97	37,127	-190	62	0	0	249	0	3	252	0.00
19	698.73	36,964	-162	73	0	0	234	0	2	236	0.09
20	698.44	36,769	-195	40	0	0	231	0	4	235	0.12
21	698.19	36,601	-168	54	0	0	219	0	3	222	0.03
22	697.95	36,440	-161	42	0	0	201	0	2	203	0.00
23	697.68	36,260	-180	32	0	0	207	0	5	212	0.00
24	697.42	36,087	-173	51	0	0	224	0	1	225	0.00
25	697.17	35,921	-166	-165	0	0	0	0	1	1	0.00
26	696.90	35,742	-179	-174	0	0	0	0	5	5	0.00
27	696.62	35,557	-185	41	0	0	225	0	1	226	0.00
28	696.38	35,399	-158	57	0	0	212	0	3	215	0.00
29	696.12	35,229	-171	43	0	0	211	0	3	214	0.00
30	695.84	35,045	-183	16	0	0	196	0	3	199	0.00
Total				-3,366	15	22	0	3,285	3	115	3,403
1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.											
2/ Project water released to South Bay Aqueduct through Del Valle Pumping Plant.											
3/ To East Bay Regional Park District.											
NR=No Records											

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

November 2011

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliveries 2/		
Oct 31	222.16	48,810											
1	222.59	49,953	1,143	0	2,635	0	6,497	0	3,430	5,212	4	90	
2	222.67	50,166	213	0	2,588	0	5,906	0	3,452	5,097	4	166	
3	223.00	51,046	880	0	2,531	0	6,130	0	2,960	5,155	2	-100	
4	222.44	49,554	-1,492	0	2,614	0	5,135	0	4,380	4,236	2	117	
5	220.97	45,682	-3,872	0	2,701	0	5,087	0	1,575	6,627	2	-1,536	
6	219.24	41,196	-4,486	0	2,723	0	4,011	0	2,718	6,177	2	-8	
7	218.77	40,002	-1,194	0	2,641	0	4,637	0	2,506	5,363	2	-9	
8	218.02	38,122	-1,880	0	2,956	0	3,117	0	1,278	5,677	2	-64	
9	219.44	41,708	3,586	0	2,968	0	4,779	0	0	5,737	2	-200	
10	220.04	43,256	1,548	0	2,744	0	3,712	0	0	5,581	5	-90	
11	220.17	43,593	337	0	2,507	0	2,545	0	0	5,001	5	124	
12	221.58	47,283	3,690	0	2,472	0	3,892	0	0	4,474	5	-25	
13	222.10	48,650	1,367	0	2,770	0	3,776	0	960	4,896	5	4	
14	222.80	50,513	1,863	0	2,775	0	4,101	0	1,818	4,199	5	85	
15	223.52	52,437	1,924	0	3,510	0	4,448	0	3,340	3,693	5	50	
16	221.70	47,598	-4,839	0	3,920	0	879	0	3,295	3,852	5	-87	
17	221.13	46,101	-1,497	0	3,407	0	3,377	0	3,230	4,322	6	19	
18	220.62	44,766	-1,335	0	2,430	0	1,968	0	0	5,108	6	43	
19	219.95	43,023	-1,743	0	2,548	0	799	0	0	4,301	6	81	
20	219.94	42,997	-26	0	2,663	0	2,414	0	0	5,024	6	-60	
21	219.71	42,402	-595	0	2,840	0	2,016	0	0	5,014	6	-136	
22	219.59	42,093	-309	0	2,875	0	1,668	0	0	4,643	6	-50	
23	219.11	40,864	-1,229	0	2,893	0	1,124	0	0	4,494	6	-137	
24	219.04	40,686	-178	0	3,002	0	1,494	0	0	4,287	6	-293	
25	220.07	43,334	2,648	0	3,035	670	1,851	0	0	4,049	5	-167	
26	221.26	46,442	3,108	0	3,050	2,008	1,303	0	0	4,542	5	-247	
27	220.29	43,905	-2,537	0	924	2,005	1,032	0	0	5,127	5	-108	
28	220.79	45,210	1,305	0	382	2,008	2,969	0	0	4,699	5	3	
29	220.84	45,341	131	0	0	2,000	2,852	160	0	4,642	5	21	
30	220.36	44,088	-1,253	0	0	1,000	3,354	266	0	4,887	5	172	
Total				-4,722	0	75,104	9,691	96,873	426	34,942	146,116	135	-2,342
Mean cfs				- - -	0	2,503	323	3,229	14	1,165	4,871	5	-78
Acre-feet				-4,722	0	149,411	19,222	192,859	844	69,738	290,775	267	-4,590

1/ Pump-in located at Mile 79.67R.

2/ Includes 107 AF delivered to DFG at O'Neill Forebay, 0 AF to Parks & Rec., and 160 AF to San Luis Water District.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

November 2011

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.		
Oct 31	518.21	1,721,469							
1	518.70	1,727,355	5,886	3,430	0	37	0	-426	
2	519.20	1,733,368	6,013	3,452	0	136	0	-284	
3	519.65	1,738,786	5,418	2,960	0	164	0	-64	
4	520.26	1,746,140	7,354	4,380	0	181	0	-491	
5	520.74	1,751,935	5,795	1,575	0	181	0	1,528	
6	521.21	1,757,615	5,680	2,718	0	166	0	197	
7	521.57	1,761,970	4,355	2,610	0	172	0	-242	
8	521.75	1,764,148	2,178	1,278	0	163	0	-17	
9	521.75	1,764,148	0	0	0	165	0	165	
10	521.74	1,764,027	-121	0	0	163	0	102	
11	521.68	1,763,301	-726	0	0	160	0	-206	
12	521.65	1,762,938	-363	0	0	159	0	-24	
13	521.70	1,763,543	605	960	0	161	0	-494	
14	521.91	1,766,086	2,543	1,818	0	168	0	-368	
15	522.38	1,771,782	5,696	3,340	0	172	0	-296	
16	522.85	1,777,484	5,702	3,295	0	183	0	-237	
17	523.31	1,783,071	5,587	3,230	0	179	0	-234	
18	523.31	1,783,071	0	0	0	167	0	167	
19	523.27	1,782,585	-486	0	0	155	0	-90	
20	523.20	1,781,734	-851	0	0	172	0	-257	
21	523.20	1,781,734	0	0	0	166	0	166	
22	523.20	1,781,734	0	0	0	145	0	145	
23	523.10	1,780,519	-1,215	0	0	162	0	-451	
24	523.11	1,780,641	122	0	0	161	0	223	
25	522.90	1,778,091	-2,550	0	670	158	0	-458	
26	522.60	1,774,450	-3,641	0	2,008	153	0	325	
27	522.24	1,770,084	-4,366	0	2,005	153	0	-43	
28	521.89	1,765,844	-4,240	0	2,008	163	0	33	
29	521.54	1,761,606	-4,238	0	2,000	175	0	38	
30	521.34	1,759,187	-2,419	0	1,000	107	0	-113	
Total			37,718	35,046	9,691	4,747	0	-1,706	
Mean cfs			---	1,168	323	158	0	-57	
Acre-feet			37,718	69,738	19,222	9,436	0	-3,362	

1/ Pacheco Tunnel, San Felipe Split; Santa Clara 9,228 AF, Casa De Fruta 0 AF, and San Benito 208 AF.

Table 16. San Luis Field Division Plant Data

(in acre-feet)

November 2011

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	10,338	8,973	0	0	6,803	3,113	74
2	10,110	8,708	0	0	6,847	3,706	270
3	10,225	8,806	0	0	5,871	-49	326
4	8,402	6,983	0	0	8,688	5,698	360
5	13,145	11,704	0	0	3,125	1,673	360
6	12,763	11,278	0	0	5,615	-156	343
7	11,080	9,676	0	0	5,177	-209	342
8	11,260	9,858	0	0	2,534	-105	323
9	11,380	9,980	0	0	0	0	327
10	11,070	9,661	0	0	0	0	323
11	9,919	8,507	0	0	0	0	318
12	8,874	7,481	0	0	0	0	315
13	9,711	8,304	0	0	1,904	1,904	320
14	8,328	6,890	0	0	3,606	3,606	333
15	7,325	5,903	0	0	6,625	6,625	342
16	7,640	6,815	0	0	6,536	63	362
17	8,573	7,752	0	0	6,407	-6	356
18	10,132	9,300	0	0	0	0	332
19	8,532	7,713	0	0	0	0	307
20	9,965	9,109	0	0	0	0	342
21	9,945	9,148	0	0	0	0	329
22	9,209	8,401	0	0	0	0	288
23	8,913	8,105	0	0	0	0	321
24	8,503	7,649	0	0	0	0	319
25	8,031	7,223	1,329	1,329	0	0	313
26	9,009	8,197	3,983	3,983	0	0	304
27	10,170	9,312	3,976	3,976	0	0	303
28	9,321	8,513	3,983	3,983	0	0	324
29	9,208	8,397	3,967	3,967	0	0	347
30	9,694	8,878	1,984	1,984	0	0	213
Total	290,775	257,224	19,222	19,222	69,738	25,863	9,436

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping;
adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations
November 2011

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Capacity 34,560 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Oct 31	325.14	19,347					
1	325.12	19,338	-9	0	0	0	-9
2	325.10	19,329	-9	0	0	0	-9
3	325.08	19,320	-9	0	0	0	-9
4	325.06	19,311	-9	0	0	0	-9
5	325.06	19,311	0	0	0	0	0
6	325.10	19,329	18	9	0	0	0
7	325.09	19,325	-4	0	0	0	-4
8	325.08	19,320	-5	0	0	0	-5
9	325.07	19,315	-5	0	0	0	-5
10	325.08	19,320	5	3	0	0	-1
11	325.07	19,315	-5	0	0	0	-5
12	325.07	19,315	0	0	0	0	0
13	325.07	19,315	0	0	0	0	0
14	325.06	19,311	-4	0	0	0	-4
15	325.05	19,306	-5	0	0	0	-5
16	325.04	19,302	-4	0	0	0	-4
17	325.04	19,302	0	0	0	0	0
18	325.03	19,297	-5	0	0	0	-5
19	325.02	19,293	-4	0	0	0	-4
20	325.02	19,293	0	0	0	0	0
21	325.01	19,288	-5	0	0	0	-5
22	325.01	19,288	0	0	0	0	0
23	325.01	19,288	0	0	0	0	0
24	325.01	19,288	0	0	0	0	0
25	325.00	19,284	-4	0	0	0	-4
26	325.00	19,284	0	0	0	0	0
27	324.99	19,279	-5	0	0	0	-5
28	324.99	19,279	0	0	0	0	0
29	324.98	19,275	-4	0	0	0	-4
30	324.97	19,270	-5	0	0	0	-5
Total			-77	12	0	0	-101
Mean cfs			---	0	0	0	---
Acre-feet			-77	24	0	0	-101

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

November 2011

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity: 5,580 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Oct 31	Not Observed						
1	Not Observed						
2	Not Observed						
3	Not Observed						
4	602.20						
5	Not Observed						
6	Not Observed						
7	Not Observed						
8	Not Observed						
9	Not Observed						
10	Not Observed						
11	602.20						
12	Not Observed						
13	Not Observed						
14	Not Observed						
15	Not Observed						
16	Not Observed						
17	Not Observed						
18	602.20						
19	Not Observed						
20	Not Observed						
21	Not Observed						
22	Not Observed						
23	Not Observed						
24	Not Observed						
25	Not Observed						
26	Not Observed						
27	Not Observed						
28	Not Observed						
29	Not Observed						
30	Not Observed						
Total			0	0	0	0	0
Mean cfs			---	0	0	0	---
Acre-feet			0	0	0	0	0

Table 19. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries

(In acre-feet)

November 2011

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Mile			USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure									
2B	12	Check No. 12	66.71		3,229						
3A		San Luis Reservoir		Department of Parks and Recreation	0	9,228	208	0	0		
				San Felipe Division Santa Clara Water District	9,228						
				Casa de Fruta Santa Clara Water District	0						
				San Felipe Division San Benito Water District	208						
				Reach 3A Subtotal:	9,436						
3	13	O'Neill Forebay	70.85	Department of Parks and Recreation	0	9,436	0	0	0		
				Cattle Program	0						
				Department of Fish & Game	107						
		Thru	70.91	San Luis Water District	160	160	0	59	48		
			85.08	(Floodwater Inflow)	0						
				Reach 3 Subtotal:	267						
		Dos Amigos Pumping Plant	86.73		4,871						
4	14		89.03	San Luis Water District	3,715	3,715	0	0	0		
			Thru 94.06								
			89.66	Pacheco Water District	230		230	0	0		
			Thru 89.67								
			89.68	Panoche Water District	40		40	0	0		
			89.70	City of Dos Palos	73						
			Check No. 14	95.06			73	0	0		
			98.15	San Luis Water District	322						
			Thru 104.20				322	0	0		
			96.15	Panoche Water District	810						
	15		102.64	(Floodwater Inflow)	0	810	0	0	0		
			102.64	Broadview Water District	0						
			105.22	Westlands Water District	1,758		1,758	0	0		
			Thru 108.64								
			Check No.15	108.50							
				Reach 4 Subtotal:	6,948	6,948	0	0	0		
				San Felipe Division Total:	9,436		9,436	0	0		
				Pacheco Water District Total:	230			0	0		
				Broadview Water District Total:	0						
				City of Dos Palos Total:	73		73	0	0		
				SLWD Reach 4 Subtotal:	4,037	4,037	0	0	0		
				Panoche Water District Total:	850		850	0	0		
				SLWD Total:	4,197			4,197	0		
				Westlands WD Reach 4 Subtotal:	1,758				0		

Table 19. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

November 2011

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending		Mile			USBR	Transfer	DWR Recreation	USBR Recreation				
	No.	Structure											
5	16		110.52	(Reverse flow, Kings River)	0	5,098	64	52					
				Westlands Water District	5,098								
				Thru Dept. of Fish and Game @ Lat. 4L	116								
				Dept. of Fish and Game @ Lat. 6L	0								
				Dept. of Fish and Game @ Lat. 7L	0								
	17	Check No. 16	122.07			4,817							
			124.18	Westlands Water District	4,817								
			Thru 132.74										
		Check No. 17	132.95			4,845	3,869	403					
	18		133.81	Westlands Water District	4,845								
			Thru 142.61										
			Pleasant Valley Pumping Plant	Westlands Water District	3,869								
			143.16	City of Coalinga	403								
			Check No. 18	143.23									
					Reach 5 Subtotal:	19,148	19,032	0	64	52			
6	19		145.26	GWF Energy	0	9	1/ 136						
				City of Huron	0								
				DWR Water Truck @ Lat. 22R	9								
				Kings County to Lemoore NAS Through WWD	136								
				Kings County through WWD 30L	0								
				Westlands Water District	4,132								
			Check No. 19	155.64									
					Reach 6 Subtotal:	4,277	4,141	136	0	0			
7	20		156.34	City of Huron	72	72	2,700						
				SWP Construction @ Lat. 24R	0								
				Kings County through WWD 31L, 32L, 33L, 34L, 35L, 36L	0								
				Westlands Water District	2,700								
			Check No. 20	164.69		165	1,747						
	21		164.79	City of Avenal	165								
			167.04	Westlands Water District	1,747								
			Thru 171.67										
			Check No. 21	172.40	253,999								
					Reach 7 Total:	4,684	4,684	0	0	0			
					SWP Construction Total:	0	0	0	0	0			
					Westlands WD Total:	28,966	28,966	0	0	0			
					City of Coalinga Total:	403	403	0	0	0			
					City of Huron Total:	72	72	0	0	0			
					Kings County to Lemoore NAS Through WWD	136	0	136	0	0			
					City of Avenal Total:	165	165	0	0	0			
Total San Luis Field Division Deliveries:						44,760	44,401	136	123	100			

1/ From County of Kings to Westlands Water District.

Table 20. Consolidated State-Federal San Luis Canal 1/

Daily Operations
November 2011

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project	Dos Amigos Pumping Plant	San Luis Water District Pools 14 & 15 2/	Panoche Water District Pools 14 & 15	Westlands Water District Pools 15 thru 21 3/	Flow Past Check 21	
Oct 31	27,968								
1	28,138	170	0	5,212	99	32	770	4,380	154
2	28,062	-76	0	5,097	99	32	770	4,269	34
3	28,604	542	0	5,155	86	24	600	4,073	-99
4	28,306	-298	0	4,236	86	24	600	3,667	-9
5	28,543	237	0	6,627	86	24	600	5,860	62
6	28,780	237	0	6,435	86	24	600	5,760	154
7	28,756	-24	0	5,586	86	24	600	4,854	-35
8	28,566	-190	0	5,677	86	24	600	5,165	102
9	28,858	292	0	5,737	86	24	600	4,948	69
10	28,893	35	0	5,581	77	12	480	4,922	-72
11	29,066	173	0	5,001	77	12	480	4,339	-6
12	28,968	-98	0	4,474	77	12	480	4,178	224
13	28,886	-82	0	4,896	77	12	480	4,650	282
14	28,902	16	0	4,199	77	12	480	3,308	-314
15	28,073	-829	0	3,693	77	12	480	3,497	-45
16	27,749	-324	0	3,852	77	12	480	3,318	-128
17	28,077	328	0	4,322	66	6	429	3,430	-225
18	27,945	-132	0	5,108	66	6	429	4,472	-202
19	27,752	-193	0	4,301	66	6	429	3,743	-154
20	27,806	54	0	5,024	66	6	429	4,561	65
21	28,235	429	0	5,014	66	6	429	4,363	67
22	28,567	332	0	4,643	66	6	429	2,400	-1,575
23	28,596	29	0	4,494	66	7	429	3,960	-18
24	28,863	267	0	4,287	55	10	422	3,826	161
25	28,935	72	0	4,049	55	10	422	3,623	98
26	28,584	-351	0	4,542	55	10	422	4,351	119
27	29,137	553	0	5,127	55	10	422	4,422	61
28	28,890	-247	0	4,699	55	10	422	4,435	98
29	28,348	-542	0	4,642	56	10	422	4,437	10
30	27,582	-766	0	4,887	56	10	423	4,844	60
Total		-386	0	146,597	2,188	429	15,058	128,056	-1,062
Mean cfs		---	0	4,887	73	14	502	4,269	-35
Acre-feet		-386	0	290,775	4,340	850	29,867	253,999	-2,105

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 230 AF to Pacheco W.D., 73 AF to the City of Dos Palos and 4,037 AF to San Luis Water District.

3/ Includes 72 AF to the City of Huron, 165 AF to the City of Avenal, 403 AF to the City of Coalinga, 0 AF to Huron P&R @ 22R, 136 AF to Lemoore N.A.S. @ 29L, 0 AF to GWF @ 30L, 9 AF to DWR Water Truck at 22R, 0 AF to Kings County @ 30L, 0 AF to Broadview WD @ 3L, 116 AF to DFG @ 4L, 0 AF to Mendota Water Fowl Habitat Area @ 6L, 0 AF DFG @ 7L, 0 AF NonProject Water, 25,097 AF to Westlands Water District and 3,869 AF to Pleasant Valley Pumping Plant.

Table 21. San Joaquin Field Division Plant Data

(in acre-feet)

November 2011

23

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	156	158	59	54	61	3,687	3,572	3,397	3,386
2	21	97	53	45	52	3,880	3,662	3,426	3,438
3	78	87	68	60	68	3,281	3,044	2,849	2,806
4	26	29	14	17	21	3,023	2,924	2,798	2,846
5	0	0	1	1	5	6,730	6,597	6,358	6,446
6	0	0	6	5	6	7,089	7,134	6,996	7,144
7	0	0	1	1	1	5,882	5,697	5,509	5,593
8	0	0	1	1	1	5,826	5,888	5,696	5,791
9	0	0	0	0	0	5,740	5,636	5,562	5,520
10	0	0	0	0	0	5,930	5,893	5,747	5,648
11	0	0	0	0	0	4,847	4,984	4,880	4,813
12	0	0	0	0	0	5,193	4,984	4,880	4,894
13	0	0	0	0	0	5,881	5,767	5,568	5,610
14	0	0	0	0	0	3,931	3,775	3,650	3,614
15	0	0	0	0	0	3,005	3,145	3,045	2,990
16	0	0	0	0	0	3,052	2,921	2,780	2,798
17	0	0	0	0	0	3,036	2,962	2,782	2,750
18	155	164	0	0	0	4,816	4,535	4,408	4,333
19	26	29	15	0	0	3,545	3,453	3,333	3,290
20	7	7	6	6	7	5,668	5,664	5,446	5,466
21	69	76	60	53	61	5,083	5,075	4,932	4,945
22	43	51	43	39	46	4,293	4,287	4,137	4,131
23	23	30	32	29	34	4,270	4,212	4,133	4,132
24	55	56	46	39	48	4,032	4,255	4,100	4,039
25	23	26	17	16	20	4,187	4,078	3,938	3,950
26	50	65	52	46	53	5,140	5,181	5,082	5,064
27	21	22	42	39	46	5,431	5,437	5,278	5,233
28	60	66	44	39	46	5,372	5,188	5,042	5,048
29	61	59	68	62	70	5,269	5,246	5,082	5,093
30	49	57	52	44	54	5,596	5,375	5,182	5,127
Total	923	1,079	680	596	700	142,715	140,571	136,016	135,938

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

November 2011

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	USBR	Pool A	Carryover Article 56C	Other		
	No.	Structure	Mile									
7	21	Check No. 21	172.40		253,999							
8C	22			Empire West Side ID TL - A	393	393	2,962					
				172.66 County of Kings TL - A	0							
				Tulare Lake Basin WSD TL-A	2,962							
				175.18 Dudley Ridge WD - 1	0							
				177.54 Dudley Ridge WD - 1B	0							
				180.64 Tulare Lake Basin WSD - C	0							
				180.65 Dudley Ridge WD - 1A	73							
				182.99 Dudley Ridge WD - 2	65							
				183.00 Tulare Lake Basin WSD TL - B	1,331							
				County of Kings TL-B	0							
31A				184.00 Dudley Ridge WD - Paramount	1	139	0	0	0	0		
				184.63 Coastal Branch	923							
8D				184.78 Dudley Ridge WD - 3	0	4,293	0	0	0	0		
				Dudley Ridge Reach 8D Total:	139							
9	23			Tulare Lake Basin WSD Total:	4,293	4,293	0	0	0	0		
				Check No. 22	184.82							
				189.69 Kern County Water Agency Lost Hills Water Dist. - 1	155		155	44	75	15		
				191.18 Kern County Water Agency Lost Hills Water Dist. - 2	44							
				194.22 Kern County Water Agency Lost Hills Water Dist. - 3	75							
				196.40 Kern County Water Agency Berrenda Mesa - 2	15							
				196.75 Kern County Water Agency Lost Hills Water Dist. - 4	58							
				KCWA Reach 9 Subtotal:	347	347	0	0	0	0		
				Check No. 23	197.05							
10A	24			201.24 Kern County Water Agency Lost Hills Water Dist. - 7	68	68	140	4,046	451	10,020		
				202.05 Kern County Water Agency Lost Hills Water Dist. - 5	140							
				204.69 Kern County Water Agency Lost Hills Water Dist. - 6	0							
				205.26 Kern County Water Agency Lost Hills Water Dist. - 8	0							
				Check No. 24	207.94							
				209.71 Kern County Water Agency Belridge Water Storage Dist. - 1A	795	795	4,046	1,240	11,474	0		
				209.78 Kern National Wildlife Refuge USBR BV-1B	4,046							
				Kern County Water Agency Buena Vista WSD 1B	451							
				KCWA Semitropic WSD	12,420							
				KCWA Semitropic WSD Penstocks	0							
				USBR Total:	4,046	11,474	0	0	0	2,400		
				KCWA Reach 10A Subtotal:	13,874							

1/ DRWD same landowner transfer (Sandridge) to KCWA.

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

November 2011

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries						
	Beginning and Ending					Table A	USBR	Pool A	Carryover Article 56C	Other		
	No.	Structure	Mile									
11B	25		210.75	Kern County Water Agency Belridge - 2	0	698	3,073	98	0	0		
			214.11	Kern County Water Agency Belridge - 3	698							
			216.62	Kern County Water Agency Belridge - 4	0							
			217.13	Kern County Water Agency Belridge - 5A-C	3,073							
				Kern County Water Agency Belridge - 5D	98							
		Check No. 25	217.79									
				KCWA Reach 11B Subtotal:	3,869	3,869	0	0	0	0		
12D	26		219.58	Kern County Water Agency Belridge - 6	0	154						
				Kern County Water Agency West Kern - 3	154							
		Check No. 26	224.92									
12E	27		230.37	Kern County Water Agency Buena Vista - 6	0	327 21,315				2/ 2,533 3/ 32,389		
			Check No. 27	231.73								
	28		235.75	Kern County Water Agency Buena Vista - 2	2,860							
				Kern County WA CVC	53,704							
			238.04	DRWD CVC	0							
				Tulare Co.	0							
				Lower Tule River	0							
				Fresno Co.	0							
				Pixley ID	0							
				Hacienda								
				DWR Wells	0							
			Check No. 28	238.11								
				1/ Arvin Edison Total:	0	0	0	0	0	0		
				Reach 12E Subtotal:	56,564	21,642	0	0	0	34,922		
13B	29		238.19	Kern Water Bank Inflow	0	18,939				4/ 7,559		
				Kern Water Bank Outflow	26,498							
			241.02	Kern River Intertie (inflow)	0							
			242.85	KCWA Buena Vista WSD - 7	0							
				KCWA Buena Vista WSD - 5	0							
			243.09	Kern County Water Agency Buena Vista - 3	2,894							
			Check No. 29	244.54								
	30		249.85	Kern County Water Agency Buena Vista - 4	347	2,894	347					
			Buena Vista Pumping Plant	250.99								
				KCWA Reach 13B Subtotal:	29,739							
14A	31		254.47	Kern County Water Agency West Kern - 2	0	111						
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	111							

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

2/ Castaic Lake WA Table A to West Kern WD.

3/ Includes 21,752 AF of MWD Table A to Arvin Edison WSD for storage and 10,637 AF of MWD Table A to Kern-Delta WD for storage.

4/ Includes a transfer of 633 AF of CVP Friant Recirculation water to KCWA, 3,558 AF of DRWD Table A to KWB for storage, 901 AF of Table A transferred from Santa Barbara County FC &WCD to KCWA, and 2,467 AF g) Castaic Lake WA Table A to West Kern WD.

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

November 2011

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries				
	Beginning and Ending		No.	Structure	Mile		Table A	USBR	Pool A	Carryover Article 56C
	No.	Structure								
14A	31	Check No. 31	256.14				85	303		
	32		258.61	Kern County Water Agency Wheeler Ridge-Maricopa - 3	85					
			260.44	Kern County Water Agency Wheeler Ridge-Maricopa - 4	303					
		Check No. 32	261.72							
				KCWA Reach 14A Subtotal:	499		499	0	0	0
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	557		557	93		
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6	93					
	Check No. 33	267.36								
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	540		540			
		Check No. 34	271.27							
				Reach 14B Total:	1,190		1,190	0	0	0
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	758		758	524		
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9	524					
			277.30	Kern County Water Agency Arvin-Edison WSD	3,864					1/ 3,864
				Reach 14C Total:	5,146		1,282	0	0	3,864
	Teerink Pumping Plant	278.13			140,571					
15A	36		279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	322		322	915		
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10	915					
				Reach 15A Total:	1,237		1,237	0	0	0
	Chrisman Pumping Plant	280.36			136,016					
	37		282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11	0					
		Check No. 37	283.95							
16A	38		285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	26		26	44		
			286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A	44					
			287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13	0					
	Check No. 38	287.09								
	39		287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	82		82	392		
		Check No. 39	290.21							
	40		291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	392		392	25		
			293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15	25					
				Kern County Water Agency Tehachapi Cummings CWD	0					
				KCWA Reach 16A Subtotal:	569		569	0	0	0
17E	Edmonston Pumping Plant	293.45			135,938					

1/ MWD Table delivered to Arvin-Edison for storage.

Table 23. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

November 2011

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A	USBR	Pool A	Carryover Article 56C	Other	
	No.	Structure	Mile								
31A	C-1	Coastal Branch Control	0.02		923	151	13	279			
		Las Perillas Pumping Plant	1.16		923						
	C-2		3.79	Green Valley Water District	0						
		Badger Hill Pumping Plant	4.27		1,079						
	C-3	Coastal Check No. 3	7.21								
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	151						
		Coastal Check No. 4	9.34								
	C-5	Coastal Check No. 5	12.20								
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	13						
			14.83	Kern County Water Agency Berrenda Mesa - 1	279						
				Kern County Water Agency Berrenda Mesa - PO	0						
		Devil's Den Pumping Plant	14.86		680						
				KCWA Reach 31A Subtotal:	292	292	0	0	0	0	
				KCWA Total:	113,480	64,735	0	0	0	48,745	
33A	C-7	Bluestone Pumping Plant	19.05		596	541	118				
	C-8	Polonio Pass Pumping Plant	26.54		700						
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant	0						
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	541						
		Tank Site 2	58.63	Central Coast:	0						
35	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	118	659	0	0	0	0	
		Energy Dissipater	78.12								
	C-12	Lopez T.O.	85.86	SLOCFC & WCD	0						
				CCWA Total:	659						
38	C-12	Guadalupe T.O.	102.70	SBCFC & WCD	0		0	0	0	0	
		Santa Maria T.O.	107.43	SBCFC & WCD	0						
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0						
				SBCFC & WCD Total:	0	0	0	0	0	0	
		Tank Site 5	115.42								

1/ Dudley Ridge WD same landowner transfer (Sandridge).

Table 24. Southern Field Division Plant Data

November 2011

(in acre-feet)

Date	West Branch						East Branch								East Branch Extension		
	Oso Pumping Plant	Warne Powerplant			Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Green Spot	Crafton Hills	Cherry Valley
		Generation	Leakage	Gorman Crk. Improvement Channel	Generation 1/	Pumpback 1/	Bypass Through Plant	Tehachapi Afterbay Bypass	Generation	Leakage	Bypass Flume						
1	1,530	1,443	0	0	2,133	0	1,835	0	37	1,855	1,982	0	0	2,448	91	85	32
2	796	1,007	0	0	1,603	970	2,592	0	125	2,526	2,685	0	0	2,286	89	85	31
3	316	1,004	0	0	2,223	0	2,327	0	41	2,419	2,417	0	0	2,038	93	85	31
4	314	1,005	0	0	1,648	822	2,391	0	0	2,332	2,491	0	0	2,395	95	84	31
5	2,023	1,452	0	0	105	0	2,871	0	1,003	3,708	3,568	0	0	2,370	80	85	31
6	2,343	1,512	0	0	572	0	3,066	0	1,078	3,709	3,831	0	0	2,384	78	82	31
7	1,645	1,357	0	0	2,047	0	2,867	0	562	3,709	3,791	0	0	2,311	82	85	31
8	1,907	1,415	0	0	2,496	0	2,903	0	932	3,758	3,593	0	0	2,336	81	85	31
9	1,325	1,439	0	0	1,096	792	2,817	0	963	3,898	3,787	0	0	2,281	81	85	32
10	1,379	1,443	0	0	2,307	0	2,757	0	959	3,898	3,992	0	0	2,371	81	85	32
11	867	1,448	0	0	1,495	0	2,783	0	975	3,740	3,751	0	0	2,886	81	85	32
12	1,226	1,447	0	0	120	0	2,794	0	826	3,679	3,708	0	0	2,507	81	85	32
13	1,704	1,448	0	0	416	0	2,803	0	256	3,401	3,543	0	0	2,772	81	85	32
14	896	837	0	0	2,760	0	2,387	0	603	2,873	2,803	0	0	2,229	81	85	32
15	422	845	0	0	1,260	699	1,886	0	281	2,407	2,454	0	0	2,918	81	85	32
16	478	967	0	0	4,766	380	2,252	0	66	1,943	1,852	0	0	2,860	80	84	32
17	424	969	0	0	1,426	0	2,135	0	99	2,038	1,966	0	0	2,789	79	83	32
18	945	967	0	0	89	1,058	2,773	0	475	3,154	2,956	0	0	2,915	56	59	32
19	1,640	725	0	0	131	786	1,309	0	186	1,275	1,189	0	0	2,829	42	44	32
20	1,055	667	0	0	1,885	0	2,816	0	1,157	3,772	3,897	0	0	2,769	42	44	32
21	1,268	1,005	0	0	1,456	0	2,774	0	913	3,409	3,254	0	0	2,778	54	57	32
22	633	966	0	0	366	0	2,758	0	553	3,338	3,241	0	0	3,300	59	62	31
23	627	970	0	0	668	0	2,619	0	563	3,312	3,210	0	0	3,294	58	62	32
24	396	871	0	0	200	0	2,848	0	447	3,154	3,126	0	0	3,628	58	62	32
25	629	865	0	0	172	1,021	2,734	0	595	3,154	3,101	0	0	3,661	55	59	32
26	898	866	0	0	1,233	0	2,728	0	942	3,895	3,523	0	0	3,737	42	44	32
27	784	795	0	0	1,147	0	2,858	0	1,446	3,827	3,590	0	0	3,755	42	44	32
28	1,003	852	0	0	136	0	2,830	0	815	3,898	3,594	0	0	3,839	42	44	31
29	892	838	0	0	444	0	2,793	0	1,008	3,898	3,735	0	0	3,488	53	56	31
30	942	993	0	0	152	713	2,771	0	1,053	3,929	3,778	0	0	3,122	62	62	32
Total	31,307	32,418	0	0	36,552	7,241	78,077	0	18,959	95,908	94,408	0	0	85,296	2,080	2,137	950

1/ Values supplied by LADWP, not verified by DWR.

Table 25. Pyramid Lake

Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

November 2011

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow				Computed Losses (-) And Gains (+)		
				Project		Natural	Stream Flow	Project		To Piru Creek			
				Castaic Powerplant Pumpback 1/	Warne Power-plant	Gorman Creek Improv. Channel		Recrea-tion Deliveries	Natural	Del. To United W.A.			
Oct 31	2576.51	167,985											
1	2575.82	167,102	-883	0	1,443	0	18	2,133	0	10	0	-201	
2	2575.88	167,179	77	970	1,007	0	18	1,603	0	10	0	-305	
3	2572.90	163,389	-3,790	0	1,004	0	18	2,223	0	10	0	-2,579	
4	2574.90	165,930	2,541	822	1,005	0	20	1,648	0	12	0	2,354	
5	2576.11	167,472	1,542	0	1,452	0	20	105	0	12	0	187	
6	2576.95	168,549	1,077	0	1,512	0	20	572	0	21	0	138	
7	2576.19	167,575	-974	0	1,357	0	20	2,047	0	21	0	-283	
8	2575.23	166,350	-1,225	0	1,415	0	20	2,496	0	21	0	-143	
9	2576.01	167,345	995	792	1,439	0	20	1,096	0	21	0	-139	
10	2575.19	166,299	-1,046	0	1,443	0	20	2,307	0	21	0	-181	
11	2575.18	166,286	-13	0	1,448	0	20	1,495	0	21	0	35	
12	2576.41	167,856	1,570	0	1,447	0	30	120	0	21	0	234	
13	2577.25	168,935	1,079	0	1,448	0	24	416	0	27	0	50	
14	2575.48	166,668	-2,267	0	837	0	22	2,760	0	27	0	-339	
15	2575.74	167,000	332	699	845	0	22	1,260	0	26	0	52	
16	2572.62	163,048	-3,952	380	967	0	22	4,766	0	26	0	-529	
17	2572.10	162,396	-652	0	969	0	22	1,426	1	26	0	-190	
18	2575.33	166,477	4,081	1,058	967	0	22	89	0	25	0	2,148	
19	2577.16	168,819	2,342	786	725	0	22	131	0	21	20	981	
20	2574.19	165,029	-3,790	0	667	0	30	1,885	0	21	40	-2,541	
21	2573.71	164,422	-607	0	1,005	0	30	1,456	0	21	60	-105	
22	2574.23	165,080	658	0	966	0	26	366	0	21	80	133	
23	2574.77	165,765	685	0	970	0	26	668	0	21	94	472	
24	2575.77	167,038	1,273	0	871	0	26	200	0	21	115	712	
25	2576.73	168,267	1,229	1,021	865	0	26	172	0	21	120	-370	
26	2574.44	165,346	-2,921	0	866	0	26	1,233	0	21	120	-2,439	
27	2574.74	165,726	380	0	795	0	26	1,147	0	21	120	847	
28	2576.31	167,728	2,002	0	852	0	28	136	0	21	120	1,399	
29	2575.92	167,230	-498	0	838	0	26	444	0	21	120	-777	
30	2576.20	167,588	358	713	993	0	26	152	0	21	120	-1,081	
Total				-397	7,241	32,418	0	696	36,552	1	610	1,129	-2,460

1/ Values supplied by LADWP, not verified by DWR.

Table 26. Elderberry Forebay

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

November 2011

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake			
							Natural	Project 1/		
Oct 31	1512.71	20,242								
1	1514.98	21,152	910	2,133	0	0	0	1,207	-16	
2	1507.64	18,287	-2,865	1,603	0	970	0	3,532	34	
3	1507.92	18,392	105	2,223	0	0	0	2,167	49	
4	1510.05	19,203	811	1,648	0	822	0	0	-15	
5	1510.46	19,362	158	105	0	0	0	0	53	
6	1512.18	20,033	671	572	0	0	0	0	99	
7	1517.22	22,071	2,038	2,047	0	0	0	0	-9	
8	1518.55	22,627	556	2,496	0	0	0	1,941	1	
9	1508.91	18,767	-3,860	1,096	0	792	0	4,162	-2	
10	1507.55	18,254	-514	2,307	0	0	0	2,822	1	
11	1506.55	17,880	-373	1,495	0	0	0	1,868	0	
12	1506.79	17,970	89	120	0	0	0	0	-31	
13	1507.95	18,404	434	416	0	0	0	0	18	
14	1515.05	21,181	2,777	2,760	0	0	0	0	17	
15	1516.68	21,848	667	1,260	0	699	0	0	106	
16	1523.15	24,601	2,753	4,766	0	380	0	1,630	-3	
17	1515.33	21,295	-3,306	1,426	0	0	0	4,739	7	
18	1512.69	20,234	-1,060	89	0	1,058	0	0	-91	
19	1511.03	19,583	-651	131	0	786	0	0	4	
20	1515.63	21,417	1,834	1,885	0	0	0	0	-51	
21	1516.72	21,864	447	1,456	0	0	0	1,013	4	
22	1507.47	18,224	-3,641	366	0	0	0	4,007	0	
23	1508.93	18,775	551	668	0	0	0	116	-1	
24	1509.48	18,985	210	200	0	0	0	0	10	
25	1507.25	18,141	-843	172	0	1,021	0	0	6	
26	1510.56	19,400	1,259	1,233	0	0	0	0	26	
27	1513.48	20,548	1,148	1,147	0	0	0	0	1	
28	1513.88	20,708	160	136	0	0	0	0	24	
29	1515.09	21,197	489	444	0	0	0	0	45	
30	1513.04	20,373	-824	152	0	713	0	262	-1	
Total				131	36,552	0	7,241	0	29,466	
									286	

1/ Values supplied by LADWP, not verified by DWR.

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

November 2011

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay 1/		Natural	Deliveries	Released To Castaic Lagoon		
				Natural	Project					
Oct 31	1493.78	278,295								
1	1494.06	278,868	573	0	1,207	1	749	0	114	
2	1495.26	281,331	2,463	0	3,532	1	875	0	-195	
3	1496.91	284,735	3,404	0	2,167	1	1,029	0	2,265	
4	1495.38	281,578	-3,157	0	0	2	928	0	-2,231	
5	1495.06	280,920	-658	0	0	2	758	0	98	
6	1494.70	280,180	-740	0	0	3	646	0	-97	
7	1494.34	279,442	-738	0	0	3	599	0	-142	
8	1495.09	280,982	1,540	0	1,941	3	650	0	246	
9	1496.69	284,283	3,301	0	4,162	3	600	0	-264	
10	1497.61	286,192	1,909	0	2,822	1	899	0	-15	
11	1497.98	286,962	770	0	1,868	3	1,050	0	-51	
12	1497.54	286,047	-915	0	0	4	1,001	0	82	
13	1497.14	285,216	-831	0	0	3	823	0	-11	
14	1496.66	284,221	-995	0	0	3	1,002	0	4	
15	1496.17	283,208	-1,013	0	0	3	985	0	-31	
16	1496.57	284,035	827	0	1,630	3	915	0	109	
17	1498.41	287,858	3,823	0	4,739	3	901	0	-18	
18	1497.98	286,962	-896	0	0	3	905	0	6	
19	1497.58	286,130	-832	0	0	3	741	0	-94	
20	1497.25	285,444	-686	0	0	5	798	0	107	
21	1497.38	285,714	270	0	1,013	6	765	0	16	
22	1498.89	288,860	3,146	0	4,007	3	736	0	-128	
23	1498.62	288,296	-564	0	116	3	735	0	52	
24	1498.14	287,295	-1,001	0	0	3	753	0	-251	
25	1497.74	286,463	-832	0	0	3	748	0	-87	
26	1497.38	285,714	-749	0	0	3	765	0	13	
27	1496.94	284,801	-913	0	0	3	854	0	-62	
28	1496.46	283,807	-994	0	0	3	1,005	0	8	
29	1495.94	282,733	-1,074	0	0	3	980	0	-97	
30	1496.09	283,043	310	0	262	3	830	0	875	
Total			4,748	0	29,466	86	25,025	0	221	

1/ Values supplied by LADWP, not verified by DWR.

Table 28. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

November 2011

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		No.			Table A	Rec.	Recovery	Local	Article 56C	Other	
	No.	Structure	Mile									
29A	42	Oso Pumping Plant	1.49		31,307							
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Removed	1,129	1					
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub							
29G	W3	Warne Power Plant	14.07	(No flow through Gorman Creek Imp. Channel)	32,418							
				Ventura County WPD (T300)	1,129							
29H		Pyramid Lake		USFS		16	16					
				Pyramid Recreation (T300)	1							
		Pyramid Dam	17.10	California State Park								
29J	W4	Castaic Power Plant	25.82	(7,241 AF pumpback) 2/	36,552							
		Elderberry Forebay										
		Forebay Dam	28.12									
30 1/	W5	Castaic Lake		California State Park		22,949	132					
		Castaic Dam	31.47	Castaic Lake Recreation (T301)	16							
		Castaic Lake Outlet	31.6	MWDSC 78" & 132" (T302)	22,949							
				Castaic Lake WA 18", 24" & 54" (T303)	132							
				Castaic Lake WA Rio Vista T.P. (T304)	1,774							
				MWD-Ventura Co. WPD (T302)	154							
				Releases to Lagoon	0							
				Reach 30 Subtotal:	25,025							
		Castaic Lagoon		California State Park Recreation to Lagoon (T353)	0							
	W6	Castaic Lagoon Outlet	31.9		12,229							

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value Supplied by LADWP, not verified by DWR.

Table 29. Silverwood Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

November 2011

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow				Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Delivered to CLAWA	Rec.	San Bernardino Tunnel	Del. To Mojave W.A.	Natural To Mojave River		
Oct 31	3341.82	62,703											
1	3340.90	61,890	-813	1,982	0	3	2	0	2,448	0	136	-212	0
2	3341.37	62,304	414	2,685	0	3	1	0	2,286	0	136	149	0
3	3341.60	62,508	204	2,417	0	3	1	0	2,038	0	136	-41	0
4	3341.77	62,658	150	2,491	0	6	1	1	2,395	0	136	186	0
5	3342.92	63,681	1,023	3,568	0	12	1	0	2,370	0	136	-50	0
6	3344.46	65,065	1,384	3,831	0	8	1	0	2,384	0	136	66	0
7	3346.01	66,474	1,409	3,791	0	9	1	0	2,311	0	136	57	0
8	3347.33	67,687	1,213	3,593	0	8	1	0	2,336	0	136	85	0
9	3348.56	68,828	1,141	3,787	0	8	1	0	2,281	0	136	-236	0
10	3350.14	70,308	1,480	3,992	0	8	1	0	2,371	0	135	-13	0
11	3351.29	71,397	1,089	3,751	0	8	1	1	2,886	0	135	353	0
12	3351.96	72,035	638	3,708	0	8	1	0	2,507	0	135	-435	0
13	3352.36	72,417	382	3,543	0	8	1	0	2,772	0	135	-261	0
14	3352.36	72,417	0	2,803	0	8	1	0	2,229	0	135	-446	0
15	3351.09	71,207	-1,210	2,454	0	8	1	0	2,918	0	135	-618	0
16	3349.77	69,960	-1,247	1,852	0	7	1	0	2,860	0	135	-110	0
17	3348.57	68,837	-1,123	1,966	0	7	1	0	2,789	0	135	-171	0
18	3348.31	68,595	-242	2,956	0	8	2	0	2,915	0	135	-154	0
19	3346.23	66,676	-1,919	1,189	0	8	1	0	2,829	0	135	-151	0
20	3347.44	67,789	1,113	3,897	0	28	2	0	2,769	0	135	94	0
21	3347.67	68,001	212	3,254	0	62	1	0	2,778	0	135	-190	0
22	3347.33	67,687	-314	3,241	0	25	1	0	3,300	0	135	-144	0
23	3347.13	67,503	-184	3,210	0	15	2	1	3,294	0	135	23	0
24	3346.23	66,676	-827	3,126	0	12	2	0	3,628	0	135	-200	0
25	3345.28	65,809	-867	3,101	0	10	2	0	3,661	0	135	-180	0
26	3344.80	65,373	-436	3,523	0	10	2	0	3,737	0	135	-95	0
27	3344.38	64,993	-380	3,590	0	8	2	0	3,755	0	135	-86	0
28	3344.38	64,993	0	3,594	0	8	1	0	3,839	0	136	374	0
29	3343.78	64,452	-541	3,735	0	8	1	0	3,488	0	136	-659	0
30	3344.52	65,120	668	3,778	0	8	1	0	3,122	0	136	141	0
Total				2,417	94,408	0	332	38	3	85,296	0	4,062	-2,924
1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.													

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

November 2011

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Oct 31	1559.29	67,640				
1	1559.51	68,036	396		6	
2	1559.37	67,784	-252		5	
3	1559.78	68,524	740		5	
4	1559.84	68,633	109		5	
5	1560.03	68,980	347		5	
6	1560.03	68,980	0		5	
7	1560.27	69,417	438		9	
8	1560.60	70,021	604		6	
9	1560.60	70,021	0		4	
10	1560.66	70,131	110		6	
11	1560.63	70,076	-55		4	
12	1561.18	71,088	1,012		6	
13	1561.21	71,143	55		5	
14	1561.32	71,346	203		6	
15	1561.37	71,439	93		5	
16	1561.48	71,642	203		6	
17	1561.57	71,809	167		5	
18	1562.09	72,775	966		5	
19	1562.12	72,831	56		5	
20	1561.28	71,256	-1,575		5	
21	1562.36	73,279	2,023		77	
22	1562.39	73,335	56		121	
23	1562.28	73,129	-206		646	
24	1562.23	73,036	-93		843	
25	1562.17	72,924	-112		927	
26	1562.28	73,129	205		990	
27	1562.36	73,279	149		998	
28	1562.23	73,036	-243		934	
29	1562.14	72,868	-168		893	
30	1562.23	73,036	168		903	
Total		5,396	15,260	7,440	-2,424	

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

Table 31. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

November 2011

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					Table A	Rec.	Recovery	Local	Article 56C	Other		
	No.	Structure	Mile										
17E	40	Edmonston Pumping Plant	293.45		135,938								
	41		298.65	KCWA Tej.-Cas	Stub								
17F		Check No. 41	303.41										
18A	42		304.99	AVEK WA-Temp for TEA construction (T389)	0								
		Check No. 42	304.99										
19	43	Alamo Powerplant	305.73	(Includes 78,077 AF generation, 0 AF plant bypass, and 18,959 AF Tehachapi Bypass)	97,036	38					1/ 480		
			306.71	AVEK 305th Street West (T287)	0								
			308.05	AVEK 294th Street West (T267)	38								
		Check No. 43	309.70										
	44		311.84	LADWP Connection	0	2,703							
			313.50	AVEK 245th Street West (T269)	0								
		Check No. 44	314.81										
	45		314.93	AVEK 235th Street West (T270)	0	58							
			315.57	AVEK 225th Street West (T271)	0								
		Check No. 45	319.74										
20A	46		323.19	Palmdale WD (T272) Temp.	480	1,930							
				Antelope Valley-East Kern WA Fairmont (T272)	2,703								
				Mojave Water Agency Fairmont (T272)	58								
			323.84										
				Reach 19 Total:	3,279								
		Check No. 46											
		Check No. 47	326.77			22							
			326.91	Antelope Valley-East Kern WA Willow Springs (T273)	22								
			329.65	Antelope Valley-East Kern WA 120th Street West	Removed								
		Check No. 48	330.82										
		Check No. 49	335.93										
	50		336.73	Antelope Valley-East Kern WA Quartz Hill (T274)	1,930								
			339.68	Antelope Valley-East Kern WA Rancho Vista (T275)	13								
			340.92	AVEK WA-Temp (T387)	0								
20B		Check No. 50	341.51										
51		342.06	AVEK WA-Temp (T386)	0	13								
	Check No. 51	342.07											
52		342.95	Antelope Valley-East Kern WA 30th Street West (T414)	0									
	Check No. 52	343.74											
53		346.98	Palmdale WD (T276) Temp.	403		403							
		348.14	Antelope Valley-East Kern WA Acton Treatment Plant (T277)	31									
	Check No. 53	348.17											
21			349.52	Palmdale WD (T394)	0	31							
	54	Check No. 54	350.25										
	55	Check No. 55	352.70										
	56	Check No. 56	354.76										
	57		354.97	AVEK WA- Delivered through Littlerock Creek ID (T278)	0								
			354.97	Palmdale WD (T276)	0								
		Check No. 57	354.97	Palmdale WD (T391)	0								
22A	58		356.93			128							
			357.60	AVEK 95th Street East (T279)	0								
			357.72	AVEK 96th Street East (T280)	0								
			359.76	AVEK East Side Treatment Plant (T281)	128								

1/ Exchange between Palmdale Water District and Antelope Valley-East Kern Water Agency.

Table 31. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

November 2011

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					Table A	Rec.	Recovery	Local	Article 56C	Other		
	No.	Structure	Mile										
22B	58	Pearblossom Pumping Plant	360.61		95,908						2/ 1,101		
	59	Check No. 59	366.09										
	60		366.50		AVEK Big Rock Siphon (T368)								
		Check No. 60	373.94										
	61	Check No. 61	379.00										
	62	Check No. 62	384.26										
	63	Check No. 63	389.20		Mojave Water Agency White Road 24" & 42" (T282)								
	64	Check No. 64	395.10										
	65	Check No. 65	400.32										
	66		401.10		Mojave Water Agency Morongo 24" & 42" (T284)								
23		Check No. 66	403.41								1/ 0		
		Mojave Siphon	405.58		Las Flores Ranch Exchange								
24	24	Mojave Siphon Powerplant	405.65							2/ 4,053			
		Silverwood Lake	407.65		MWA CS DAM (T288)								
					California State Park Silverwood (T288)								
			407.70		Crestline-Lake Arrowhead WA State Project Water (T289)								
					Non-Project Water (T289)								
		San Bernardino Intake Tunnel							3/ 8				
		Devil Canyon Powerplant	412.73										
26A	26A	Devil Canyon Afterbay Control Structures	412.88		MWD-Rialto (T292)								
					MWD-Rialto (T293)								
					MWD-Rialto (T294)								
					Desert Water Agency Transfer (T293)								
					Coachella Valley WD Transfer (T293)								
					MWD EBX-1 (T290)								
					MWD EBX-1 (T291)								
					East Branch Extension								
					MWD (T294)								
28G	28H	Santa Ana Valley Pipeline	425.46						4/ 5,296	5/ 242			
			433.06		Desert Water Agency (T296)								
					Coachella Valley WD (T296)								
			440.05		MWD-SC Box Springs (T295)								
					MWD-SC Perris Bypass Pipeline (T296)								
		Lake Perris	442.00	443.44	MWD-SC (T297)								
					MWD-SC 54" & 78" (T299)								
					Calif. State Park								
					Lake Perris Parks & Rec. (T298)								
					MWD Total:	76,179		76,179	0	0	0	0	

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.

2/ MWD provided SWP water supplies to MWA for groundwater storage in the Mojave River Basin.

3/ Transfer of SBVMWD's stored Table A to Crestline Lake Arrowhead WA.

4/ Includes 2,843 AF to San Gabriel Valley MWD, 1,529 AF to San Bernardino Valley MWD, and 924 AF to San Gorgonio Pass WA.

5/ Exchange to allow DRWD to store SWP supplies in San Gabriel Valley WD.

Table 32. Water Quality At Selected SWP Locations

November 2011

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct					
					Banks Pumping Plant	O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	Devil Canyon Headworks
Alkalinity	mg/l as CaCO ₃	37	76	52	57	58	56	54	53	58
Antimony	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.05	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1
Bromide	mg/l	<0.01	0.02	<0.01	0.07	<0.01	<0.01	<0.01	<0.01	<0.01
Calcium	mg/l	7	13	11	14	13	12	12	11	13
Chloride	mg/l as C	<1	12.0	24.0	24.0	25.0	24.0	20.0	21.0	20.0
Chromium	mg/l as C	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	mg/l	<0.001	0	0	<0.001	<0.001	0	0	0	0
Hardness	mg/l	30.000	74.000	54.000	66.000	64.000	60.000	58.000	55.000	62.000
Iron	mg/l	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Lead	mg/l as CaCO ₃	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	3.000	10.000	6.000	8.000	8.000	7.000	7.000	7.000	7.000
Manganese	mg/l	<0.005	0.014	0.010	0.015	0.015	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l	<0.01	0	0	0	0	0	0	0	0
Organic Carbon, Dissolved	mg/l	NR	1.200	0.600	1.000	1.100	0.800	0.800	0.700	1.000
Organic Carbon, Total	mg/l as N	NR	1.30	0.60	1.10	0.80	0.80	0.90	1.10	1.10
Phosphate-Ortho	mg/l as P	<0.01	0.04	0.07	0.04	0.04	0.05	NR	0.04	0.05
Phosphorus-Total	mg/l	<0.01	0.08	0.11	0.06	0.06	0.06	0.05	0.06	0.06
Selenium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sodium	mg/l	3	15	17	23	24	23	20	21	21
Specific Conductance	µS/cm	80	214	233	242	261	252	226	230	235
Sulfate	mg/l	<1	12	12	19	20	19	16	16	15
Total Dissolved Solids	mg/l	46	118	129	135	144	140	127	127	130
Turbidity	NTU	1	20	4	5	3	2	4	3	1
Zinc	mg/l	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	0.009	<0.005	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

Table 33. Water Quality At Selected Delta Stations

November 2011

Date	Antioch Tides (feet above mean sea level)		Flow In CFS		Electrical Conductivity in millisiemens/cm										Cl in mg/l
			Net Delta Outflow Index		Rio Vista	Antioch	Chippis Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal	
	Highest High Tide	Actual High Half Tide	Mean Daily	Monthly Average				md	md	md	14dm	md	14dm	md	md
1	5.46	4.04	5,679	5,679	6,348	0.75	4.10	0.18	0.18	0.21	0.18	0.21	0.76	0.27	13
2	5.11	3.72	6,046	5,863	6,608	0.75	4.07	0.18	0.18	0.20	0.18	0.21	0.66	0.27	13
3	5.42	3.99	4,934	5,553	5,991	1.06	5.65	0.25	0.19	0.24	0.19	0.20	0.71	0.26	13
4	5.52	3.94	5,093	5,438	5,613	1.08	5.66	0.23	0.20	0.24	0.19	0.20	0.79	0.25	14
5	5.50	3.80	5,171	5,385	6,035	1.06	5.57	0.20	0.20	0.24	0.20	0.21	0.82	0.29	14
6	5.54	3.76	5,631	5,426	6,121	1.13	5.58	0.21	0.21	0.24	0.21	0.19	0.86	0.33	14
7	5.41	3.59	5,826	5,483	6,211	1.06	5.27	0.20	0.21	0.24	0.21	0.21	0.73	0.35	12
8	5.36	3.48	6,660	5,630	6,349	1.07	5.17	0.22	0.21	0.24	0.22	0.20	0.65	0.34	12
9	5.36	3.47	6,466	5,723	6,385	1.12	5.05	0.23	0.22	0.24	0.22	0.21	0.65	0.34	12
10	5.64	3.65	6,291	5,780	6,406	1.36	5.75	0.31	0.23	0.28	0.23	0.21	0.70	0.35	13
11	6.15	4.12	4,605	5,673	5,814	1.95	7.36	0.55	0.25	0.37	0.24	0.21	0.73	0.35	13
12	6.24	4.21	4,478	5,573	5,601	2.28	7.95	0.64	0.28	0.43	0.26	0.24	0.74	0.35	13
13	6.11	4.22	5,012	5,530	5,830	2.41	8.22	0.73	0.31	0.46	0.27	0.24	0.76	0.35	13
14	5.91	4.15	5,252	5,510	6,029	2.37	8.47	0.68	0.34	0.46	0.29	0.26	0.78	0.34	13
15	5.58	3.99	5,513	5,511	6,199	2.20	7.65	0.52	0.37	0.41	0.31	0.27	0.79	0.34	13
16	5.30	3.81	6,564	5,576	6,263	1.93	7.13	0.49	0.39	0.40	0.32	0.28	0.75	0.34	13
17	5.16	3.75	7,692	5,701	6,213	1.87	7.49	0.40	0.40	0.38	0.33	0.29	0.74	0.39	14
18	5.13	3.86	7,856	5,821	6,189	1.89	7.39	0.42	0.41	0.38	0.34	0.33	0.79	0.37	14
19	5.31	3.78	7,725	5,921	6,249	1.55	6.68	0.36	0.42	0.37	0.35	0.41	0.87	0.38	14
20	5.87	3.92	8,690	6,059	6,657	1.77	7.31	0.43	0.44	0.38	0.36	0.31	0.88	0.35	14
21	5.72	3.64	11,345	6,311	7,362	1.56	6.68	0.36	0.45	0.35	0.37	0.31	0.88	0.39	15
22	5.92	3.68	12,419	6,589	8,043	1.58	6.00	0.37	0.46	0.36	0.38	0.26	0.82	0.39	15
23	6.54	4.11	12,582	6,849	8,171	2.09	8.44	0.62	0.49	0.43	0.39	0.24	0.77	0.35	15
24	6.78	4.37	12,278	7,075	8,002	2.41	8.63	0.81	0.53	0.49	0.41	0.25	0.74	0.33	15
25	6.47	4.06	12,693	7,300	8,189	1.88	7.36	0.55	0.53	0.40	0.41	0.29	0.81	0.38	15
26	6.07	3.75	11,089	7,446	8,056	1.43	5.68	0.40	0.51	0.33	0.40	0.36	0.76	0.43	15
27	6.03	3.73	14,183	7,695	8,573	1.23	5.28	0.37	0.48	0.31	0.39	0.40	0.68	0.48	15
28	5.88	3.87	12,744	7,876	8,696	1.13	5.00	0.34	0.46	0.29	0.38	0.43	0.66	0.58	17
29	5.43	3.72	13,426	8,067	8,687	0.92	4.29	0.29	0.44	0.26	0.37	0.50	0.69	0.22	17
30	4.89	3.56	12,687	8,221	8,302	0.69	3.51	0.24	0.43	0.25	0.36	0.46	0.73	0.00	20

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

N.R. = No Record.

N.C. = Not computed due to insufficient data.

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

November 2011

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	September 21, 2011	None	
California Aqueduct At Banks Pumping Plant	September 21, 2011	None	
O'Niell Forebay Outlet Check 13	September 20, 2011	None	
Delta Mendota Canal At McCabe Road	September 20, 2011	None	
California Aqueduct Near Kettleman City (Check 21)	September 20, 2011	None	
California Aqueduct At Near Highway 119 (Check 29)	September 20, 2011	None	
California Aqueduct at Tehachapi Afterbay (Check 41)	September 21, 2011	None	
California Aqueduct At Devil Canyon Headworks	September 21, 2011	None	

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

(in kWh)

November 2011

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	4,021,886	0	39,207	42,919	3,715,640	3,715,640	323,351	723
2	4,017,343	0	43,170	47,045	3,711,128	3,711,128	296,301	769
3	4,067,404	66	42,174	51,466	3,713,072	3,713,072	265,969	919
4	4,012,613	0	38,242	47,896	2,893,464	2,893,464	212,241	972
5	4,019,609	264	34,891	45,107	2,902,328	2,902,328	194,512	990
6	4,151,521	308	35,242	42,939	2,805,392	2,805,392	207,107	1,046
7	5,462,292	6,303	34,829	42,507	2,692,464	2,692,464	181,629	995
8	6,062,661	7,018	31,550	39,331	2,184,696	2,184,696	161,339	986
9	5,914,271	6,765	29,051	37,074	2,620,280	2,620,280	167,761	958
10	6,367,636	5,148	31,818	38,982	2,083,312	2,083,312	194,675	2,384
11	6,366,503	5,170	22,332	29,631	2,084,416	2,084,416	176,563	1,005
12	6,355,041	5,115	28,054	36,076	2,090,072	2,090,072	121,640	966
13	6,394,234	5,291	28,852	35,763	2,467,808	2,467,808	101,445	961
14	6,395,202	5,247	27,832	31,117	2,264,152	2,264,152	11,355	953
15	6,389,086	5,412	30,684	36,745	2,475,256	2,475,256	4,341	952
16	6,362,268	5,038	30,287	35,472	657,256	657,256	2,001	952
17	6,398,491	5,038	28,781	36,166	1,569,800	1,569,800	6,686	952
18	6,409,194	5,071	26,939	31,497	899,096	899,096	6,612	965
19	3,887,741	12,276	29,501	34,470	1,234,656	1,234,656	6,286	955
20	3,888,566	12,672	22,687	35,749	1,234,232	1,234,232	6,250	970
21	4,903,382	9,625	19,986	36,588	1,236,696	1,236,696	6,667	960
22	4,850,560	9,779	18,184	31,471	1,008,912	1,008,912	6,955	948
23	4,882,691	9,218	17,581	31,743	768,712	768,712	6,882	933
24	3,642,177	13,750	14,858	29,016	849,568	849,568	6,595	931
25	3,663,176	13,277	15,705	29,053	850,352	850,352	6,525	948
26	3,634,840	13,409	19,186	34,541	849,616	849,616	6,476	948
27	3,633,696	14,553	19,236	35,813	848,912	848,912	6,598	949
28	5,152,972	9,471	18,538	32,541	1,546,584	1,546,584	7,231	949
29	4,906,616	9,669	18,705	30,562	1,877,800	1,877,800	7,294	950
30	4,903,569	8,910	18,555	34,483	1,662,320	1,662,320	6,994	948
Total	151,117,241	203,863	816,659	1,103,763	57,797,992	57,797,992	2,716,284	29,837

Table 36. San Luis Field Division Energy Data

(in kWh)

November 2011

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	1,453,615	1,261,615	0	0	2,344,980	1,072,980
2	1,384,382	1,192,382	0	0	2,458,533	1,330,533
3	1,383,431	1,191,431	0	0	2,142,085	-17,915
4	1,136,781	944,781	0	0	3,138,388	2,058,388
5	1,750,966	1,558,966	0	0	2,324,663	1,244,663
6	1,718,588	1,526,588	0	0	2,189,033	29,033
7	1,515,224	1,323,224	0	0	2,076,041	-83,959
8	1,542,569	1,350,569	0	0	1,036,981	-43,019
9	1,560,460	1,368,460	0	0	20,966	20,966
10	1,508,490	1,316,490	0	0	21,274	21,274
11	1,348,650	1,156,650	0	0	20,570	20,570
12	1,223,500	1,031,500	0	0	19,965	19,965
13	1,324,906	1,132,906	0	0	653,488	653,488
14	1,111,779	919,779	0	0	1,229,668	1,229,668
15	989,113	797,113	0	0	2,328,370	2,328,370
16	1,036,994	924,994	0	0	2,326,599	22,599
17	1,168,852	1,056,852	0	0	2,301,849	-2,151
18	1,363,338	1,251,338	0	0	19,250	19,250
19	1,167,350	1,055,350	0	0	20,042	20,042
20	1,396,386	1,276,386	0	0	20,493	20,493
21	1,397,990	1,285,990	0	0	21,021	21,021
22	1,276,506	1,164,506	0	0	21,538	21,538
23	1,235,488	1,123,488	0	0	21,934	21,934
24	1,194,345	1,074,345	0	0	20,944	20,944
25	1,113,680	1,001,680	335,478	335,478	14,212	14,212
26	1,243,382	1,131,382	999,350	999,350	0	0
27	1,422,711	1,302,711	996,149	996,149	0	0
28	1,292,360	1,180,360	997,139	997,139	0	0
29	1,270,890	1,158,890	988,427	988,427	0	0
30	1,331,275	1,219,275	472,241	472,241	13,112	13,112
Total	39,864,001	35,280,001	4,788,784	4,788,784	26,805,999	10,077,999

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Plant Energy Load Data

(in kWh)

November 2011

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devil's Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	12,496	32,883	41,970	39,728	42,500	891,511	934,591	2,063,149	7,594,182
2	6,945	17,765	37,850	33,797	37,960	930,991	958,057	2,093,047	7,690,059
3	6,343	16,390	47,734	44,658	47,381	794,781	795,924	1,720,455	6,253,686
4	2,843	6,211	11,171	13,886	15,574	736,036	764,676	1,700,413	6,460,263
5	1,202	1,660	2,483	2,368	4,954	1,645,373	1,745,548	3,871,285	14,375,880
6	1,171	1,678	5,627	5,807	5,747	1,731,350	1,891,170	4,220,755	15,916,365
7	1,089	1,555	2,255	2,105	1,416	1,415,907	1,503,112	3,322,055	12,485,340
8	1,056	1,547	542	695	500	1,409,324	1,544,648	3,408,031	12,930,840
9	1,047	1,547	0	0	0	1,383,764	1,485,511	3,349,995	12,353,310
10	1,049	1,544	0	0	0	1,427,920	1,540,814	3,433,870	12,648,447
11	1,040	1,565	0	0	0	1,181,896	1,302,655	2,915,550	10,766,412
12	1,074	1,558	680	993	487	1,235,137	1,322,285	2,943,336	10,958,139
13	1,006	1,529	1,491	2,017	1,381	1,410,709	1,504,453	3,335,002	12,591,693
14	351	536	1,491	1,945	1,388	944,221	980,883	2,188,197	8,074,674
15	0	0	1,452	1,997	1,389	760,574	818,847	1,821,710	6,705,531
16	0	0	1,481	2,002	1,404	747,713	762,169	1,662,738	6,279,768
17	279	0	1,150	1,578	938	734,382	773,629	1,666,038	6,188,670
18	12,755	30,133	2,068	2,096	1,418	1,157,204	1,184,193	2,640,968	9,694,161
19	2,734	6,754	11,755	7,833	1,416	856,019	899,561	1,989,559	7,403,562
20	1,369	2,406	5,839	6,395	6,663	1,365,138	1,481,164	3,277,835	12,233,673
21	5,443	13,412	41,940	39,012	42,546	1,225,593	1,328,423	2,971,727	11,070,594
22	3,780	9,489	31,127	29,182	31,858	1,032,921	1,117,465	2,494,085	9,283,977
23	2,458	6,033	23,031	22,644	24,292	1,022,017	1,107,554	2,474,219	9,245,880
24	4,660	10,365	32,514	29,462	33,592	967,718	1,108,109	2,465,914	9,060,390
25	2,482	5,529	13,312	13,218	14,660	1,004,846	1,062,749	2,362,778	8,854,434
26	4,386	11,669	36,601	34,111	36,632	1,230,694	1,348,776	3,037,771	11,350,368
27	2,314	4,902	30,065	28,553	31,802	1,280,020	1,414,033	3,152,270	11,719,593
28	4,999	13,181	31,549	29,724	32,443	1,279,476	1,350,016	3,010,502	11,151,270
29	5,044	11,560	47,413	45,834	48,763	1,267,472	1,366,294	3,051,895	11,419,677
30	4,157	11,357	36,996	33,297	37,677	1,332,074	1,396,723	3,107,170	11,462,418
Total	95,571	224,755	501,585	474,935	506,779	34,402,779	36,794,032	81,752,319	304,223,256

Table 38. Southern Field Division Energy Data

(in kWh)

November 2011

Date	West Branch			East Branch				East Branch Extension		
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic SWP Gen /1	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation	Green spot Pumping Plant	Crafton Hills Pumping Plant	Cherry Valley Pumping Plant
1	406,182	896,470	816,000	205,497	1,250,467	2,741,576	169,585	55,543	67,045	4,230
2	214,767	635,267	816,000	297,603	1,688,512	2,611,674	230,877	54,472	66,975	4,138
3	89,767	632,750	816,000	267,608	1,639,423	2,307,708	193,637	57,235	66,982	4,156
4	88,225	630,933	816,000	276,469	1,587,038	2,705,486	200,982	58,418	66,800	4,003
5	533,339	895,474	816,000	314,900	2,481,083	2,694,298	299,529	48,299	66,747	4,087
6	644,345	935,496	816,000	344,592	2,592,508	2,720,329	323,237	48,272	66,781	4,263
7	435,133	847,268	1,392,000	327,275	2,488,003	2,632,727	311,429	47,678	66,763	4,112
8	502,354	880,135	1,392,000	332,899	2,486,043	2,669,173	295,383	48,443	66,788	4,230
9	351,693	895,082	1,392,000	317,876	2,579,035	2,607,214	298,955	48,304	66,809	4,254
10	366,782	897,002	1,392,000	310,406	2,583,637	2,706,012	302,007	48,331	66,850	4,262
11	233,701	898,036	1,392,000	319,913	2,480,151	2,881,152	285,017	48,330	66,893	4,244
12	325,805	896,805	1,392,000	307,971	2,443,897	3,306,456	278,051	48,336	66,850	4,233
13	450,526	896,972	1,392,000	318,127	2,263,697	3,420,360	271,148	48,374	66,871	4,246
14	239,379	519,264	816,000	269,269	1,918,052	3,393,454	215,272	48,172	66,867	4,273
15	116,201	523,444	816,000	216,411	1,608,660	3,434,936	177,321	48,350	66,822	4,260
16	131,271	597,140	816,000	257,316	1,301,068	3,362,155	141,391	47,451	66,542	4,041
17	117,107	596,784	816,000	242,278	1,359,550	3,252,542	154,683	47,083	66,433	3,998
18	252,202	595,893	816,000	320,816	2,098,425	3,451,302	238,698	32,877	45,914	3,946
19	435,322	448,486	816,000	145,765	859,384	3,330,097	97,366	25,032	34,739	3,706
20	281,843	412,925	816,000	316,192	2,670,032	3,259,418	312,916	25,092	34,754	3,634
21	336,569	620,228	816,000	320,374	2,294,721	3,276,385	268,698	32,120	45,540	3,901
22	173,945	598,482	816,000	312,656	2,238,716	3,826,069	266,709	34,799	49,167	4,203
23	170,638	600,399	816,000	298,235	2,230,334	3,918,636	265,177	34,570	49,222	4,249
24	110,256	536,352	816,000	332,411	2,128,789	4,331,448	259,512	34,606	49,155	4,229
25	170,245	533,010	816,000	310,544	2,130,283	4,396,342	260,391	32,545	46,190	4,233
26	241,023	533,609	816,000	302,592	2,589,128	4,479,300	297,842	24,942	34,871	4,154
27	210,263	489,162	816,000	326,751	2,554,553	4,503,611	302,965	25,049	34,871	4,124
28	268,743	525,906	816,000	311,425	2,617,107	4,591,861	306,588	25,118	34,944	4,186
29	238,518	517,053	816,000	310,409	2,612,327	4,221,583	312,467	31,919	44,848	4,592
30	210,710	610,548	816,000	306,937	2,595,749	3,796,805	320,563	37,183	49,292	4,689
Total	8,346,851	20,096,375	28,512,000	8,841,517	64,370,369	100,830,110	7,658,393	1,246,944	1,689,324	124,875

1/ Energy delivered to SWP by LADWP at Sylmar substation; not necessarily related to actual Castaic operations.